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TYPE AMMONITES

VII.

In Memoriam

SYDNEY SAVORY BUCKMAN

Born 3rd April, 1860

Died 26th February, 1929

Palaeont
B

TYPE AMMONITES–VII

BY THE LATE

S. S. BUCKMAN

With contributions, photographs and/or MS.

from

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Corrections

Certain corrections have to be made, as follow:

Index, Vol. vi. From this index the following items were accidentally omitted:—

1.	Page 53.	Ammonites baculatus ..	DLXXXI
2.	,, 54.	Baculatoceras baculatum	DLXXXI
		baculatum	DLXXXI

Plate Legends. The following are revised readings:

3. Vol. iii, Pl. CXXXIXA
Ammonites biplex, Homœomorph of
Cf. *Perisp.* sp., Siemiradzki, 1899, 256; [Shotover], "near Oxford"
Kimmeridge Clay [=Ampthill Clay]; J. W. Tutcher Coll.
S. 90, 32, 30, 41; 146, 32 (30), 28 (26), 48
DICHOTOMOCERAS DICHOTOMUM, S. Buckman, 1919
Prionodoceratan, *dichotomum*; Genotype, Holotype

4. Vol. iii, Pl. CXXXIXB
Ammonites biplex, Homœomorph of
Fig. 1, Left side of CXXXIXA, with much test, showing stout ribs bordering constrictions; body-chamber from x complete?
Fig. 2, Peripheral view, ribs strong
DICHOTOMOCERAS DICHOTOMUM, S. Buckman, 1919
Prionodoceratan, *dichotomum*; Genotype, Holotype

5. Vol. iii, Pl. CXXXIXC
Ammonites biplex, Homœomorph of
Fig. 1, Inner whorls of CXXXIXB, fine prorsicostæ and constrictions
Fig. 2, Periphery, 2 ribs not divided; Figs. 3, 4, suture-line, nahtlobe short
DICHOTOMOCERAS DICHOTOMUM, S. Buckman, 1919
Prionodoceratan, *dichotomum*; Genotype, Holotype

6. Vol. iii, Pl. CXXXIXD
DICHOTOMOCERAS DICHOTOMUM, S. Buckman, 1919
Prionodoceratan, *dichotomum*; Paratype

7. Vol. iii, Pl. CXXXIXE
DICHOTOMOCERAS DICHOTOMUM, S. Buckman, 1919
Prionodoceratan, *dichotomum*, Paratype

8. Vol. iii, Pl. CLXXXIV
DICHOTOMOSPHINCTES INGENS, Young & Bird sp.
Perisphinctean, *antecedens* (*ingens*). Cf. CXXXIX

9. Vol. iii, Pl. CCXII
ALLIGATICERAS ALLIGATUM, Bean-Leckenby sp.
Vertumniceratan, *vertumnus*

For the name *Alligaticeras* see T.A. iv, 1923, 57, and for *Dichotomosphinctes* see Pl. DCL, T.A. vi, 1926. That *Ammonites ingens* will be finally housed in *Dichotomosphinctes* is none too certain.

The object of these corrections of plate-legends is to revise local and chronological details, in accordance with later experience, of species of *Dichotomoceras* itself and of others which have been attributed to it, in order to make the following remarks understandable.

Systematic

Dichotomoceras: There are now three species—*D. dichotomum*, (Pl. CXXXIX), *D. strumatum*, (Pl. DCCXLVII), and *D. variocostatum*, Buckland sp., re-figured and described by Maud Healey, (Jur. Amm.; Q.J.G.S., lx, 1904, p. 58, pl. xi and Pal. Univ. 56, 1904).

The order now given would appear to be the biological order of the three forms. *D. dichotomum* reaches a diameter of 173 mm. without showing any sign of the old-age character, large ribs, or even of ribs set more distantly—a preliminary to the stage of big ribs. *D. strumatum* shows wider spacing and enlargement of ribs at about 160 mm. diameter, a huge-rib stage from about 190 to 230 mm. and a stage of distant, but not so gross ribs afterwards: *D. variocostatum* passes over to the distant-ribbed stage at about 180 mm. diam.; but the subsequent enlarged ribs are of low elevation comparable with the ribs of *D. strumatum*, as if the gross-ribbed stage had been altogether skipped and there had been direct passage to the less swollen rib-stage of *D. strumatum*.

Thicknesses come next for consideration. *D. dichotomum* has a thickness of about 30 per cent. of the diameter, with a tendency to tail off as it grows larger. *D. strumatum* reaches 37 per cent. and then shows decline. *D. variocostatum* yields to my measurements over ribs about 33 per cent.—Miss Healey's measures of 29 per cent. are not taken over the ribs, I surmise. These thickness-measurements give, as I read them, a rise to individual maxima of thickness and decline in old age, and a rise to a serial maximum declining in the same way in the old age of the race, so that the last species *D. variocostatum* by commencing decline earlier does not attain to the peak of *D. strumatum*.

The suture-line shows similar development. In *D. dichotomum* it is not so very strongly developed as in *D. strumatum*; but in the old age of *D. strumatum* there is conspicuous septal degeneration. Such degeneration commences earlier in *D. variocostatum*, where, though the suture-lines are not satisfactorily preserved, there seems to be no sign of the elaborate longilobation of *D. strumatum* at its diameter of 139 mm. (Pl. DCCXLVIID, figs. 1—3).

The septal details seem to be the best evidence for placing, as the terminal of the series, the species showing the greatest septal degeneration, that is, *D. variocostatum*. However, it is doubtful if the geological sequence accords with such presumed biological sequence. Certainly the evidence is not much; but it is worthy of attention. In a boring at North Ferriby, East Yorkshire (T.A. iv, 39) *D. dichotomum* was recognized at a depth of 30–35 feet, while at a depth of 50 feet "*Dichotomoceras* sp. stouter than *D. dichotomum*" occurred. This stouter form

might be either *D. strumatum* or *D. variocostatum* one would suppose; but it might be another species: the finds were only fragmentary. The evidence, however, seems to point to a stout *Dichotomoceras* some 15 to 20 feet below *D. dichotomum*. For the present, then, it may be sufficient to date all the species of *Dichotomoceras* as hemera *dichotomum*, keeping in mind the possibility that the stout forms may mark an earlier date than the thin forms.

Some further notes on specimens of the genus may be given. In the holotype of *D. variocostatum*, which is in the Buckland Collection in the University Museum, Oxford, the earliest whorls are well exhibited: they are polygyral and smooth, that is, ribless, but carry rather marked nodes at intervals: such nodes may be relics of ancestral parabolæ.

The primary ribs of this specimen regularly bifurcate—Miss Healey noticed this character in her description; but in *D. strumatum* the ribs quite frequently trifurcate. In *D. strumatum* there are fewer ribs to whorls than there are in *D. variocostatum*—due, in the former species, to preparation for, and elaboration of, bigger ribs. This is shown below.

	Ribbing	Whorls antepenultimate	penultimate	ultimate
1.	*D. dichotomum* (1) ..	38	44	51
2.	*D. dichotomum* (2) ..		48	55
3.	*D. strumatum*	46	47	20
4.	*D. variocostatum*	43	52	38

The ultimate whorl in *D. dichotomum* (1) is the true last whorl of the specimen, body-chamber being practically complete. The ultimate whorl in the other examples is the last whorl which they happen now to possess, more or less of body-chamber having been lost.

The thicknesses of *D. dichotomum* (2) should be less than those for No. 1; but also they are without allowance for the attrition (suffered in the Boulder Clay ?). Narrow, upstanding, laminar ribs are a special feature of the genus in the pre-swollen-ribbed stage. As such ribs stand up some 2½ to 4 mm. a possible difference of some 5-8 mm. in measurements would considerably affect proportions.

HARPOCERATOIDES, S. Buckman, 1909, T.A. i, p. *ii*; "Type, *Am. alternatus*, Simpson, No. 9" (Pl. IX). The figure given in Pl. IX, *H. alternatus*, and what is figured as *H. strangwaysi* in Pl. DCCXXXIX, show comparative graphs of some divergence, so far as height and umbilical proportions are concerned, while the thickness shows the former (*H. alternatus*) to be more than 7 per cent. stouter than the latter. Both species have the undulations of the inner area, a sort of bunched or false primary ribbing breaking up into many secondaries—a character possibly peculiar to the genus. The same character is seen in *Harpoceras kisslingi*, Hug, (Abh. Schweiz. Pal. Ges., xxv, 1898, p. 14; IV, 2), which was claimed as *Harpoceratoides* (T.A. i, 1909, p. *ii*): in ornament it would seem to differ by having broader and fewer secondary ribs. No information is given by its author as to its thickness. However, there appears to be a simple method of distinguishing the three named forms by graphs. In each species the height of whorl per cent. is, at first, greater than the umbilication; later, the two are equal; later, umbilication is greater than height. The critical point, therefore, or the cross-over point where both are equal, is to be noted. Graphs yield the following results: in *H. alternatus* equality would be at a diameter of 172 mm.; in *H. strangwaysi* (Pl. DCCXXXIX) it is at 125 mm.; in *H. kisslingi*

it is at 70 mm. according to Hug's figure: there is so large a margin of difference in these results that there is room for allowance for small errors in measurements or in delineations.

Sowerby wrote the name of his species strangewaysi: I have ventured to amend this to strangwaysi, because information has been given me that the family name was Strangways, without the e. Such amendment of personal names or of an obvious typographical lapse may be allowed; but any other alterations in the spelling originally adopted by an author is now generally condemned as an impertinence and a nuisance. To alter an author's spelling from k to c, from o to u, from ei to i, and so on, or *vice versa*, is pedantic and confusing. To render Greek words with a k is quite useful: it tells at once that the name is taken originally from Greek, and it shows that the pronunciation is to be k, not s. Though the Latin c was pronounced k, it is undesirable to inscribe Latin words with k; so it is necessary to write *concinnus*, though this is too often incorrectly pronounced as konsinnus, instead of konkinnus. But if an author happens to have written a genuine Latin word with a k instead of a c, later writers have no business to correct him.

While on this subject of alterations or amending by later authors it may be desirable to note a practice too frequently indulged in without the least excuse—the alteration, of trivial terms founded on personal names, from endings in anus to i—humphriesianus to humphriesi. Nowadays it is the custom to make trivial names from persons end in i and those from places end in anus; but it was not the practice of early days, so the early spelling should not be altered. Besides, it could make much trouble: d'Orbigny named two Ammonites after a man called Sauzé; to the first one he applied the trivial term sauzeanus, to the later one, sauzei. To attempt alteration, even if it were justified, would produce confusion, though the two species are not at all alike. But, in certain other cases, because two species were somewhat alike, it was thought desirable to show their relationship by keeping similarity of name—generic terms then not being sufficiently restricted to perform that task. So to relatives of well-known species ending in i were given the same names ending in anus—the body of the words implying connexion, the differences of terminations marking minor distinction. Confusion can only result from any attempts to excise and amend the longer termination.

GLYPTARPITES, nov., Genotype *G. glyptus*, Pl. DCCXL. The longitudinal (parallel with the coil of the shell) contour of the broad ribs is shown in fig. 3. In shape it is suggestive of a dipping peneplain sloping forwards, towards the aperture of the conch, with an escarpment-face looking backwards, at the foot of which, and running parallel, is a small narrow (river-like) channel. The peneplain is slightly convex, while the channel is like the mark which would be made by a narrow graver, held askew, cutting out a thin ribbon. Hence the name glyptus. Towards the end of the whorl the broad ribs give place to narrow ribs, so that the graving marks come quite close together.

The style of the broad ribs has some resemblance to that seen in *Paltarpites*; but there the ribs are on a much narrower scale; while the radial line differs: in *Paltarpites* the radial line is much more projected on the venter and is less geniculate laterally.

Murleyiceras and *Eleganticeras* may be compared with *Glyptarpites* as to ribbing, but both differ from it in rib-curve and in suture-line.

Harpoceratoides is somewhat near in the curve of its radial line, but it differs in rib-contour (longitudinally) and in the undulatory character of its inner area—see above, p. 7.

Radial line and suture-line of *Glyptarpites* effectually dispose of any association with *Hildoceratoides*.

Glyptarpites glyptus, No. 38394 of the collection in the Museum of Practical Geology, London, is the only example of its kind yet noted among more than 1,000 Upper Lias ammonites from Barrington. There is nothing else like it, though the possibility of quite small uncharacteristic young examples of this, or of congeneric species, having been overlooked may be allowed. Unfortunately, the figured specimen was found loose, so that its exact bed is not known ; but it shows a rather hard argillaceo-calcareous matrix with a greenish-grey tint : such matrix appears to be the same as that of the figured example of *Harpoceratoides strangwaysi* (Pl. DCCXXXIX). Therefore the specimen of *G. glyptus* is supposed to have come from bed 6 of Barrington, and is assigned to the *strangwaysi* hemera.

In the figure of the side-view the part of the suture-line on the inner margin is obscured by shadow, making the inner part of the line, the first auxiliary lobe, look as if it ran obliquely. But this is not so : the other side of the lobe runs forward and the suture-line is of the usual Harpoceratan style—all lobes vertical to the guide-line.

TARDARPOCERAS, S.B., Genotype, *T. tardum*, Pl. DCCXLI, No. 38382 of the collection in the Museum of Practical Geology, London. One feature of this genus is the somewhat late appearance of falciform ribbing (Harpocerate-style) : hence the name tardus. Early ribs are sigmoidal only, rather suggestive of *Pseudolioceras*-pattern : they are of such low relief, especially in the inner area, that they give to the umbilicus and early whorls a smooth appearance which, so far as the inner area is concerned, is not altogether lost when the Harpoceratan-like ribs begin to be formed. This smooth appearance is in considerable contrast to the aspect of *Harpoceras falcula*, Pl. DCLXXXII.

There are for illustration several forms of small Harpocerates from various beds of Barrington Upper Lias, as well as from other places. Further discussion of them may advisedly await such illustration.

PŒCILOMORPHUS, S. Buckman, 1889, Mon. Inf. Ool. Amm. (Pal. Soc.), p. 115, " Type—*Pœcilomorphus cycloides*, d'Orbigny sp." No true type of the genus has yet been chosen from the genosyntypes ; but the type of the species is indicated by its author. Under the name *Ammonites cadomensis*, d'Orbigny figured (1846, 1845 ?, Céph. jur. ; Pal. franç., CXXI, 1–5) three examples, whose name he subsequently altered to *Ammonites cycloides* (Id., p. 370, 1846). He calls the three examples :—figs. 1, 2, " variété renflée," 3, " variété à faisceaux," 4, 5, " variété à ombilic large " (p. 372). But as he gives (p. 370) the dimensions and proportions of figs. 1, 2 only, that example, being thus singled out, becomes the type of his species automatically.

In quoting the type of the genus I did not mention *Ammonites cycloides* as being so, but *Pœcilomorphus cycloides* ; so that the genotype should be taken from one of the series which I had handled and had figured under the designation *Pœcilomorphus cycloides* (Mon. Inf. Ool. Amm., Pl. XXII, figs. 1–22). In pages 118, 119, I described and arranged these forms, and stated that those depicted in Pl. XXII, figs. 13–16, 19, 20, " should probably be considered the type-form," an expression which in those days did not necessarily mean the genotype, but merely the most usual or commonest form of the genus. However,

it indicates whence the genotype should be chosen ; but there are still three specimens, out of which one example is to be selected as the actual standard of reference. Obviously, the one to take is that illustrated in figs. 15, 16. This then now becomes the actual genolectotype of the genus *Pœcilomorphus*.

The result is, then, that *Ammonites cycloides*, d'Orbigny, CXXI, 1, 2, only, is the type of the species, and that *Pœcilomorphus cycloides* ; S. Buckman, XXII, 15, 16, becomes the genolectotype or standard of reference : it is apparently the same species as d'Orbigny's type. The genotype of *Pœcilomorphus*, however, should not be quoted as '*Am. cycloides*, d'Orbigny' ; but as '*Pœcilomorphus cycloides*, d'Orbigny sp., as figured by S. Buckman, XXII, 15, 16,' or as '*P. cycloides* (d'Orbigny), S. Buckman,' or still shorter as '*P. cycloides* ; S. Buckman '—the semi-colon instead of comma after the trivial name, signifying, as I have suggested before, that the author following is not the original giver of the trivial name.

It then becomes advisable, for the sake of clarity, to name some of the other forms and some new species.

P. regulatus, S.B., T.A., Pl. DCCXLVI, a compressed form, with regular fine ribs : the largest specimen of the genus which I have seen. Cf. S.B., Mon., XXII, 1, 2, 7, 8,

P. umbilicatus, nov., d'Orbigny's " variété à ombilic large," Céph. ; Pal. franç, CXXI, 4, 5, p. 372, Holotype. Like *P. regulatus*, but more umbilicate.

P. evolutus, nov., Holotype, S. Buckman, Mon. I. O. Amm., XXII, 21, 22. Like *P. umbilicatus*, but thinner and barely sulcate.

P. primiferus, nov. T.A., Pl. DCCLVI, Holotype, S.B., ex Darell, Coll., No. 4794 ; near Sherborne, Dorset. Cf. *P. cycloides* ; S.B., Mon. I.O. Amm., XXII, 9, 10. Height of whorl $<$ thickness ; later, height about = thickness ; carinati-bisulcate on rather flattened venter ; costate, with primary ribs distinct, branching into 2 and 3—primary ribs failing on body-chamber, which is half-a-whorl in length ; umbilicus of moderate width. Proportions, S. 12.25, 45, 53, 26.5 ; 23, 39, 41, 28.

It is a peculiarity of examples of *Pœcilomorphus* that so few show primary ribs. In most of them around the umbilicus the inner lateral area appears as a nearly smooth band—the primary ribs having passed into fine growth-lines which require a lens for detection. These fine growth-lines are sometimes entire, sometimes bifurcate. The present specimen and the example cited with it are distinct by showing well-marked primary ribs—hence the name. There is not much difference between the two specimens—the ribs are rather stronger in the T.A. specimen, and there is rather less irregularity in size of ribs on, perhaps, a rather more sulcate, flatter ventral area.

P. fasciatus, nov., d'Orbigny's " variété à faisceaux," Céph. ; Pal. franç., CXXI, 3, p. 372. Thick form, strong ribs like bands at intervals. Cf. S.B., Mon., XXII, 17, 18.

P. asper, nov., Holotype, S.B., Mon., XXII, 3, 4 ; subquadrate whorls, somewhat umbilicate, ribs coarse and rather distant.

P. inclusus, nov., Holotype, S.B., Mon., XXII, 5, 6 ; broad whorls and a minute umbilicus.

P. angulinus, nov., Holotype, T.A., DCCLVII ; subcostate, with an angulate venter ; furrows feeble.

P. capillaceus, nov., Holotype, S.B., Mon., XXII, 11, 12 ; small costæ, but finishes in the capillate stage. As regards ribbing, more degenerate than *P. angulinus*, but in respect of venter less so.

All the English species are recorded as from the *humphriesianum* zone: that is to say, that their date is, presumably, about the *Epalxites* hemera. The genus is very characteristic of the early Stepheoceratan —*Pœcilomorphus macer*, S.B., Mon., XXII, 23-29, being excluded from the genus (see *Maceratites* below).

The ontogeny of broken-up specimens of the genus reveals the following development. The beginning is a ribless form, with rounded venter and subinflated whorls—very much like *Lissoceras oolithicum* (d'Orbigny) in miniature. Later development is to more-inflated whorls, with broadening of periphery, accompanied by ventral change, to angulate, then to carinati-bisulcate, with stronger and stronger furrows. Ribs appear showing well-marked primaries, later these disappear and leave the secondaries which are persistent, though finally fading away to a capillate stage. Meanwhile, the somewhat open umbilicus tends to close up, till it becomes quite small—the next stage would be an opening out again, some signs of which may be detected in *P. asper* and *P. inclusus*. From the broad periphery with strong furrows catagenetic changes are to angulate periphery with loss of furrows—the reverse of the anagenetic development.

All these changes do not march in step—one feature may accelerate while its companions lag, or vice versa: this makes for variety of form. But all are moving towards a sort of acmic goal, and the acmic form may be considered to be, in strength of ribs, in breadth of venter, in deepness of furrows and in closing of umbilicus, *Pœcilomorphus cycloides* (d'Orbigny), as restricted and defined above.

After attaining this acmic goal there is a general catagenesis at unequal rates—decline of rib-strength, narrowing of venter, shallowing of furrows, with slight opening-out of umbilication, or perhaps little change in that character, until such forms as *P. angulinus* and *P. capillaceus* are produced.

It is hoped that it will be possible to return to this subject of the development of *Pœcilomorphus*, when there is opportunity to prepare the material fully and to take the necessary enlarged photographs of inner whorls of the specimens.

MACERATITES, S. Buckman, 1928, Genotype, *M. aurifer*, T.A. vii, Pl. DCCLXVI. At the date of the Monograph, 1889, see *Pœcilomorphus* (p. 9, above), I supposed that the forms which are now included in this genus might be ancestors of the later species of *Pœcilomorphus* through *P. evolutus* (p. 10, above); but this idea cannot be sustained now. In the *macer* group (*Maceratites*) the proportions are different, the ribbing does not correspond—the ribs being rarely furcate and quite pronounced on the inner area—and the mouth-border does not agree: in *Maceratites* there is a pronounced spatulate lateral auricle, in *Pœcilomorphus* nothing but a plain curved mouth-border has yet been seen, the rib-curve giving no indication of any extrusion, in the middle lateral area, indicative of lateral auricles.

There are now figured three different forms at least:—

1. *Maceratites aurifer*, T. A., Pl. DCCLXVI, Genotype and Holotype, agreeing with *Pœcilomorphus macer*, paratype (Mon. XXII, 27, 28), somewhat stout and rather coarsely ribbed.

2. *Maceratites costulatus*, nov. = *P. macer*, paratype (Mon. XXII, 25, 26, Holotype of *M. costulatus*), approximate ribbing with obovoid aperture.

3. *Maceratites macer*, (Mon. XXII, 23, 24), Holotype of *P. macer*, S.B., 1889; thin, smooth-looking, the ribs being of low relief.

So far the species of *Maceratites* are only known from the marl with green grains (Inferior Oolite) of Frogden Quarry, Oborne, Dorset, and the Upper White Ironshot of Dundry, Somerset, (both Sonninian, *Witchellia*).

The *Witchellia* affinities of *Maceratites* are fairly obvious, and it would seem to be classable as a phaulomorph of that genus or of an ally. But the affinity of *Pœcilomorphus* may be considered quite doubtful, requiring more investigation. It may be questioned whether it belongs to the Sonninian or Witchellian stock at all: it may be suggested that its species are anamorphs, (see T.A. iii, p. 6), phylogenetically immature examples of some quite distinct family.

SPATULITES, S. Buckman, 1928, Genotype *S. spatians*, T.A., vii, DCCLXV. This genus has spatulate auricles like *Maceratites*, and from such character its name is taken. But it differs from that genus, not only in proportions, but in showing a complicated Sonninian suture-line instead of the simple Witchellian arrangement.

In spatulation there is agreement with *Pelekodites* (T.A., iv, CCCXCIX), which, however, besides being of stouter proportions, has a suture-line of peculiarly plain pattern, almost too plain to belong to the *Witchellia* group.

In *Spatulites* there is a coronate stage to be detected in early whorls, later the ribs are jugate on the inner margin, after the pattern of *Zugophorites* (CCCXLI) and *Zugella* (DCCL); but in the genotype *Spatulites* this jugate stage is short, giving way to single ribs, which in the end yield to smoothness, little more than growth-lines. There is a trace of septicarination, because the carina without the test shows a slight indication of flattening, like the imprint of a partition-band; but in the carina itself a hollow space (infilling) would be difficult to detect.

In proportions and suture-line *Spatulites* would appear to be a relative of *Zugophorites*, of which it might be regarded as a phaulomorph. But, as *Zugophorites* is the earlier in date, this would be a case where the nomomorph and the phaulomorph are not isochronous.

Considering the rather small size of the genotype *Spatulites*, its suture-line is more Sonninian-pattern than is that of *Zugophorites*, which, being larger, should be more intricate than that of *Spatulites*. The suture-line of *Zugophorites* is of Witchellian-pattern, somewhat elaborate. The suture-line of *Spatulites* is of Sonninian pattern, quite elaborate, allowing for small size. It is comparable with the suture-line of *Dundryites*.

DUNDRYITES, S. Buckman, 1926, (T.A., vi, Pl. DCLXXXVII), *D. albidus*, holotype, a nearly smooth form; *D. pavimentarius*, S.B., 1927, (T.A., vii, DCCLI), the costate form. The former is a well-preserved specimen, with no detectable coronate stage; there is a stage of single ribs of quite low relief, which passes to a smooth (feeble growth-line) stage. In general side-view the form might be mistaken for a smooth development of the *Witchellia*-group; but the absence of a flattened venter with no indications of furrows, and the small doubtfully septate carina, would arouse suspicion, confirmed by the finding of a genuine Sonninian (complicated) suture-line. In regard to suture-line *Spatulites* is in fair agreement with *Dundryites*, but the rib-characters are not similar.

ZUGELLA, S.B. 1927, T.A., vii, DCCL, Genotype, *Z connata*, S.B., Distinct from *Witchellia* by nearly parallel flanks and by ribs jugate (connate) on edge of inner area. Shares with *Zugophorites*, (CCCXLI),

the jugate character of ribbing, but has its ribs flexed on the lateral area, ornament more delicate, shape more platycone. On superficial view is very like *Reynesella* (Mon. I.O. Amm., Suppl. Pl. XVII), but has a hollow (septate) carina, different ribbing, and flat inner margin: in *Reynesella* the inner margin is concave, there are distinct primary ribs which branch—the ordinary Ludwigoid pattern; in *Zugella* there are no primary ribs: there are only small swellings on the edge of the inner area.

Possibly the similarity of *Zugella* to *Reynesella*-like forms may have partly contributed to the dating of its bed as hemera *discites* (Q.J.G.S. xlix, 1893, 498, 499, § XIV, 8). The affinities of *Zugella* suggest a later date than *discites*: possibly the bed was formed by deposition during two dates.

NANNINA, S.B., 1927, T.A. vii, Pl. DCCLII. Genotype, *N. evoluta*, S.B.; a stouter species, *N. undifera*, S.B., DCCLIII. Differs from *Nannoceras* (CDXLV) by its more developed suture-line and by ribs connate (jugate) on the edge of the inner area—a small coronate stage in preceding inner whorls. Distinguished from *Sonninites alsaticus* by lacking the large septate carina and by its ornament being less pronounced. This genus is presumably a phaulomorph series allied to *Sonninites alsaticus*, just as *Nannoceras* is a phaulomorph series of *Euhoploceras*. *Nannina* is several hemeræ later than *Nannoceras*: the matrix of its two species indicates that they are from the same quarry and the same bed as the examples of *Sonninites alsaticus*.

MACONICERAS, S. Buckman, 1926, T.A., vi, DCLXXXIV; Genotype, *M. vigoense*, S.B. A series of small forms (phaulomorphs ?) with sigmoidal, bifurcate, fairly strong ribs well projected on the carinati-bisulcate venter, and having a specially long ventral lappet. There is much resemblance to the costate stage of *Harpoceras falciferum*, J. Sowerby sp., but the ribs are broader and less falcate, and the suture-line is extremely simple; one may suspect, however, that specimens of this genus have not infrequently been quoted as *Ammonites falcifer*.

The name is taken from Mâcon, (Saône-et-Loire, France: Lissajous named the first species in his paper, 'Toarcien des Environs de Mâcon, 1906.' There are now three species figured and named in Type Ammonites:—

1. *Maconiceras vigoense*, S.B., DCLXXXIV, (Vigo Brickyard, Northampton), more umbilicate and sulcate than *Grammoceras soloniacense*, Lissajous, Pl. I, fig. 5.

2. *M. soloniacense*, Lissajous sp., I, 5, lectotype, "de *Soloniacum*, Soligny; localité où l'espèce est assez abondante" (Lissajous, p. 28, note); = T.A. vii, DCCXXI.

3. *M. lassum*, S.B., Id. DCCXXII = *G. soloniacense*, Lissajous, I, 4, in which there is considerable falling off in the strength of the ribs—most noticeable in regard to the primaries.

Mr. B. Thompson, F.G.S., informs me that the species of the genus occur in the *Cerithium* Beds of the Upper Lias which overlie the strata of the *braunianum* zone: so the hemeral term *vigoense* denotes a later date than *braunianum*.

PHAULARPITES, S. Buckman, 1928, T.A., vii, Pl. DCCLXXVA, *P. exiguus*, Genotype and Holotype; Pl. DCCLXXVB, paratype. This Upper-Lias genus shows definite excentrumbilication which, reducing the whorl-height, is balanced by a small increase of whorl-thickness, instead of the usual gradual decrease. The ribs are somewhat between falciform and sigmoid, numerous, small, fairly approximate, furcate or

intercalate, most conspicuous as secondaries, because the primaries tend to fade away. On the line of junction there is a slight longitudinal furrow. The periphery is angulate, carrying a small, raised carina; but on body chamber, periphery flattens and is barely carinate. Suture-line is simple. Both specimens show at end of whorl a slight radial furrow—such as often, in casts, precedes a finish to the mouth—such furrow may not appear in the test, being often due to increase of thickness of test to strengthen the lip of the mouth. From the run of the growth-lines it would be reasonable to expect lateral projecting lappets.

Phaularpites may be reckoned as possibly a phaulomorph of *Harpoceratoides*, possibly as a catamorph. By its character of sub-inflation of body-chamber it differs from any other Upper-Lias forms hitherto observed; but such character might, perhaps, be expected in *Elegantuliceras*. However, *Phaularpites* has some resemblance to *Tardarpoceras*, (T.A., vii, 1927, Pl. DCCXLI, p. 9); but the suture-line is less florid; excentrumbilication is pronounced; subinflation of body-chamber is noticeable; Pseudoliocerate ribs are not apparent in umbilicus, and other ribs do not become so definitely falciform; the carina shows no trace of being hollow, and it is distinct on the cast, whereas in *Tardarpoceras* the carina is not distinct on the cast, but there is a well-marked infilling which stands up as a false keel, so that carination of test would be strongly developed. In *Tardarpoceras* (Pl. DCCXLI, fig. 3, also to be noticed in fig. 1) the arrow marks the end of the partition-band in the carina: it is situated about 7 mm., that is about the length of one septum, beyond the last (×): the part of carina previous to the arrow is infilling; afterwards there is a definite, strong carina in which a partition-band would be developed as a carinal septum if and as the specimen grew older; but in body-chamber of *Phaularpites* the carina almost disappears. Lastly, the inner margin of *Phaularpites* is flat upright, but in *Tardarpoceras* it is undercut. About this character some remarks follow later.

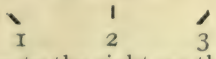
The character of subinflation of whorls on the body-chamber makes *Phaularpites* recall *Œdania* of the Inferior Oolite (Sonninian) more than any Upper-Lias specimen: the small ribs and general shape also carry on the likeness. As, in the case of foreign species of unknown horizon, the distinction might be important for dating, it is advisable to say a few words.

Phaularpites recalls mostly *Œdania parvicostata* (Mon. I.O. Amm. 1905, Sup. Pl. XXI, figs. 7-9), *Œ. delicata* (figs. 10-12), *Œ. inflata* (figs. 13-15), —the genus having received its name from the subinflate character. Excentrumbilication is not definite in *Œdania*; but that is not necessarily a distinction, for such character might be developed in some cases. But the points to notice are the differences in the rib-curve and in the inner margin: the rib-curve in *Œdania* is more definitely sigmoid or biarcuate, and the inner margin is concave.

The Inner Margin. The rebated part of the whorl, or the inner margin which passes from the inner part of the lateral area to make junction with the preceding or overlapped whorl, shows a considerable variation of form as between different species, especially of platycones. In my early work (Amm. I.O.; Q.J.G.S., xxxvii, 1881, p. 593) I pointed out the differences shown by this character, calling it "The Shoulder," a colloquial term applied in constructional work to any such rebated portion of a plane surface, and, therefore, easily understood.

In considering the differences in characters of serpenticones and

platycones of the Upper Lias Hildoceratoids, it is advisable to note this character. It presents itself in three main shapes, which may be diagrammatically represented as follow :—



the whorl in each case lying to the right, so that the upper part represents contact with the surface of the outer whorl, and the lower part contact with that of the inner whorl. Therefore No. 1 may be called 'undercut,' No. 2 upright, and No. 3 sloping. But there are further possible modifications : each one may be plain as illustrated, concave or convex, making, therefore, nine possible shapes. And, of course, there might be further modification of these, like subconcave or perconcave.

The following is an analysis of some Upper Lias genera :—

Undercut	*Harpoceras,*	*Tardarpoceras*
Upright	*Phaularpites*	
Upright convex	*Paltarpites,*	*Tiltoniceras*
Sloping	*Hildoceratoides,*	*Orthildaites*
Sloping concave	*Eleganticeras,*	*Elegantuliceras*
	Hildoceras,	*Pseudolioceras*
Sloping subconcave	*Harpoceratoides*	
Much sloping, subconcave	*Ovaticeras*	
Sloping passing to convex	*Hildaites. H. subserpentinus* passes to sloping convex.	
Sloping convex	*Murleyiceras.* In adult *M. gyrale* concavity appears.	
Sloping subconvex	*Glyptarpites*	

These inner-marginal characters are not so distinct in young forms, and in ontogenetically or phylogenetically gerontic forms there may be alteration, decline, or exaggeration.

In the Inferior Oolite there are, roughly, two main divisions : the Ludwigoids have a sloping, often strongly concave inner margin, while the Sonninines, like Witchelloids, have a more or less upright inner margin, sometimes convex.

In some cases the junction-line of inner margin and inner area of whorl is shown rather distinctly, as a narrow longitudinal ridge. In some other cases the inner margin is quite undefined—the inner area of the outer whorl falling so gradually towards the plane of the overlapped whorl that no inner area is defined.

EDITORIAL NOTE

BY

A. MORLEY DAVIES.

The germ of "TYPE AMMONITES" may be found in a letter from the author to the *Geological Magazine* of August, 1904, asking for information on the types of S. P. Pratt and of Young & Bird, for the purposes of the PALÆONTOLOGIA UNIVERSALIS, to which he was at this time contributing in respect of English ammonites. It may be presumed that, as a result of this letter, he discovered the large series of types in the Whitby Museum, and eventually decided that a separate publication was preferable.

The original format of YORKSHIRE TYPE AMMONITES seems to have been largely influenced by that of the PALÆONTOLOGIA UNIVERSALIS. Apart from the inclusion of a general text on bibliographic, classificatory and chronological subjects, the main difference was the absence of a reproduction of the original figure (in the case of Simpson's species non-existent) and the printing of the original description and "Remarks" in wrapper form, bearing on the outside the number, original name and modern generic name of the species figured. But the unit for numerical purposes was still the original species of the early author, not the species as recognized by the modern reviser. Hence arose some anomalies in numbering referred to below.

Towards the end of Volume II, completed in 1918, after a break of nearly four years due to the War, drastic alterations were introduced. The wrapper-text was replaced by a greatly-abbreviated description on the plate itself, and the limitations to Yorkshire (already broken in Nos. 37, 81, and 97) and to species already named (half-broken in the case of Nos. 42, 91, 104) were abandoned. With the opening of Vol. III was also abandoned the separate pagination of classificatory, chronological and other text.

The issue of plates with wrapper-text was continued up to No. 121, but plates of the new style, numbered 122 to 130, were issued concurrently with the last of the old style during 1918-19 (Vol. II), leading to some irregularity in the numerical sequence.

The divergence of plan from that of *Palæontologia Universalis* was now very wide, yet among the new features was the occasional reproduction of an original figure (protograph), in very special cases only (Pl. 131a, 138a, 199a, 337, 392, 393, 504, 539, 540, 608, 673, 789 and in the original issue of Pl. 537, but not in the plate afterwards substituted).

As the "shorthand" description on the new-style plates appears not to be always understood, some examples may be analysed here.

Plate CCCLXII.

MACROCEPHALITES MACROCEPHALUS.

"Peterborough; Cornbrash"; [Oeschingen, Wurtemberg; Callovian] Test limonite; matrix, blue and brown, ironshot; J.W.T. Coll. S. 44, 48, 50, 16 ?; 62, 52, 45, 15; size 68; max. c. 120.

TMETOKEPHALITES BATHYTMETUS, NOV.

Macrocephalitan, *Macrocephalites;* Genotype, Holotype. Cf. CCCLXXII.

The name first given, in small caps, is either that with which the specimen is actually labelled or that which is likely to be given to this

species in the average collection. The locality given in quotation-marks is the alleged locality ; that in square brackets is that considered most probable, on the evidence of the matrix and test. The specimen figured is in Mr. Tutcher's collection. Proportions (height of last whorl, thickness, umbilicus, stated as percentages of the diameter) are given at two diameters—the smallest measurable (44 mm. just where the last whorl emerges) and the largest measurable (62 mm.), the proportions not being measurable at the actual maximum diameter reached (68 mm.). The probable full diameter with complete body-chamber is estimated at 120 mm. Finally, the name proposed by the author is given in large type, followed by the age and hemera, the status of the specimen as type, and a reference to a comparable species, *Dolikephalites dolius*.

Plate CCCI.

" ZIGZAGICERAS cf. MOOREI ; NEUMAYR SP."

" Ry. N. of Troy Farm, Fritwell, [Oxon], Bed 20 (k/l)," [*wagneri*] (Brach. Nam. ; Pal. Ind., N.S., III (2), 1918, 236) ; G. S. Engl. 30328 S. 123, 37.5, 36, 33.5 ; 190, 35.5, 33, 37 ; c. 35 ribs ; max. c. 330.

ZIGZAGITES IMITATOR, NOV.

Zigzagiceritan, *imitator* Genotype, Holotype. Cf. CCC.

This specimen, having come from a railway-cutting, was evidently collected by the Geological Survey, during the construction of the railway, from bed 20 of Pringle, equivalent to the lower part of *k* of Odling (*Quart. Journ. Geol. Soc.*, lxix, 491). This reference may be found in the author's " Brachiopoda of the Namyau beds," at the reference given [which should rather be pp. 236-7]. The provisional hemeral term *wagneri* was given (in the Namyau memoir) from the identification of one of Odling's ammonites as an old-age mutation of *Z. wagneri* (Oppel). Measurements as in previous example.

The total number of plates issued in the seven volumes of TYPE AMMONITES (including YORKSHIRE TYPE AMMONITES) is 1051, but of these 18 were issued in substitution of others, so that the number of effective plates is 1033. They are numbered consecutively from 1 to 790, the difference (243) between this number and 1,033 being accounted for by plates bearing a letter in addition to the number.

As a rule, each plate-number corresponds to a single species, but there are certain anomalies (explained below) as a result of which the total number of species is 796 instead of 790.

When the author intended from the first to illustrate the same species by two or more plates, the first of these bears the letter A after the number, there being no plate bearing the simple number without letter. In other cases only one plate was issued at first, supplemented by others at some later date : there is then a plate bearing a simple number, as well as others with the added letter A, B, etc.

Substituted plates are usually, but not always, distinguished by an asterisk (eleven with asterisk, seven without). A full list of these plates, with reasons for the substitution, is given on page 19 (distinction being made between the asterisked and non-asterisked cases).

Numbers of PLATES and SPECIES compared.

	Species.	*Nos.*	*Plates.*
More than one species to a plate (*see* Note 1)	3	1	1
More than one species to a Number (*see* Note 1)	9	4	10
One plate to a species (*see* Note 2)	596	596	596
Two plates to a species (*see* Note 3)	150	151	300
Three plates to a species (*see* Note 4)	27	27	81
Four plates to a species (*see* Note 5)	10	10	40
Five plates to a species (*see* Note 6)	1	1	5
	796	790	1,033
Add plates replaced			18
			1,051

Notes on Notational Anomalies.

Note 1.—Plate 53 figures 3 species; Pl. 111a is one species, 111 b and c are another; 116a, 116b, 116c, 118a, 118b, 121a, 121b each figures a distinct species. In all these cases the numerical unit was the original broadly conceived species of Simpson, syntypes of which were separated and new-named. (In three other cases, however, Pl. 42, 91 and 104, subordinate types of Simpson were raised to separate specific rank, but independently numbered.) Result: Excess of species over plate-numbers, 7.

Note 2.—The 596 single plates representing a species all bear simple numbers, with one exception (143a), in which case it may be presumed that there was an original intention of adding a second plate.

Note 3.—Of the 150 species represented by two plates each, in 120 cases the plates bear the letters A and B; in 24 cases one is unlettered, the other lettered A; the remainder are anomalous: 138a and 138c (138b having been transferred to another species); 308 and 308b (no 308a); in two cases (396, 602) both plates bear the unlettered number without distinction. Lastly, there are two cases where the same species has plates of different numbers—*Echioceras aureolum*, 28 and 96; *Hildaites serpentiniformis*, 138b and 267b. In the latter case it may be presumed that 138b should have been re-issued or re-numbered 267a: this case does not affect the totals. The previous case results in an excess of *one* of plate-numbers over species to set against the opposite excess explained in Note 1, leaving the final balance of six.

Note 4.—Of the 27 species represented by three plates each, in 21 cases these are lettered A, B, C, the remaining six having an unlettered plate, A and B. In two cases (354, 580) the unlettered plate was issued after the others, and should more consistently have been lettered C (this was recognized in the Corrigenda of Vol. VI, but in the case of 354 the instruction was to add A to the plate-number, instead of C, as was correctly indicated for 580).

Note 5.—In one case (590) one plate is unlettered, the others bear A, B and C; in the other nine cases all are lettered A, B, C and D.

Note 6.—The five plates are lettered A, B, C, D and E (139).

LIST OF SUBSTITUTED PLATES.

No. of Original Plate.	*Date of Original.*	*No. of Substituted Plate.*	*Date of Reprint.*	*Reason for substitution.*
81	viii, 13	81*	i, 14	New photographs after removal of matrix.
224	v, 21	224	vii, 21	Re-orientation of block [and better print ?].
287	iii, 22	287	xii, 22	Change of name, identification with Sowerby's species having proved erroneous.
300B	v, 22	300B	vi, 22	Better print: no other difference.
302	v, 22	302	vi, 22	,, ,, ,, ,, ,,
305A	v, 22	305A	vi, 22	,, ,, ,, ,, ,,
312	v, 22	312	vi, 22	Re-orientation of block and partial re-numbering of figures.
356	xii, 22	356*	ii, 23	Better print and addition of fig. numbers.
440	xii, 23	440*	x, 24	Change of name and of hemera.
453	xii, 23	453	ii, 24	Correction of plate-number (incorrectly CLDIII).
463	ii, 24	463	iv, 24	Better print: no other difference.
471	ii, 24	471	iv, 24	Better print and slight correction in fig. numbers (1B).
482	iv, 24	482*	vi, 26	Change of name and of hemera.
524	x, 24	524*	vi, 25	Change of name (pre-occupied). Measurements on original omitted on reprint.
537	ii, 25	537*	vi, 26	Cancelling of protograph reproductions.
543B	ii, 25	543B*	iv, 25	Inversion of block.
718A	vi, 27	718A*	ii, 28	Change of generic name and of hemera. Slightly modified wording of legend to 718B.
718B	vi, 27	718B*	ii, 28	

In the cases of Pl. 524 and 537, at least, it is advisable to retain the original as well as the substitute.

The author has himself indicated the several ways in which the work may be arranged for binding (Vol. V, p. 5). For the purposes of the working palæontologist there can be no question that the chronological arrangement is the best. Whatever changes of detail may prove necessary in future, all contemporary species will be in proximity. The only objection pointed out no longer holds since the work is ended. It is suggested that a convenient division would be into six volumes of plates, covering respectively the ages (1) Gigantitan to Perisphinctean, (2) Cardioceratan to Macrocephalitan, (3) Clydoniceratan to Stepheoceratan, (4) Sonninian to Grammoceratan, (5) Haugian to Amaltheian, (6) Liparoceratan to Psiloceratan. Each such volume would contain some 150 to 200 plates, and each separation comes at a well-marked palæontological change. A seventh volume would include all the letterpress and the five portraits (two of J. Buckman, one each of S. S. Buckman, M. Simpson and J. W. Tutcher).

In arranging the plates on this plan, the two first of the tables that follow will be useful. Table II will show where each plate should go, and Table I will check the resulting assortment. It is suggested that sheets of paper of two colours should be intercalated between the plates, to mark off the several ages and hemeræ. A similar intercalation would be useful in the text-volume, to enable the Index of each original volume to be found quickly.

Whether bound in this way or bibliographically, the six tables which follow should form a complete guide to the seven volumes. Tables I, II, IV and V refer exclusively to the genera and species figured on the plates; in Tables III and VI others named in the text are also

dealt with. For the sake of economy in space the plate-numbers are given throughout in arabic numerals.

Table I (Chronological) contains most detailed information. In it the figured species are arranged under their hemeræ in descending (antichronic) order. The ages and hemeræ are taken from Vol. V, pp. 71-78, with such additions and modifications as are believed to express the author's own latest views: for purposes of cross-reference, numbers have been allotted to the ages, and letters to the hemeræ; and, for the sake of completeness, ages and hemeræ have been included the faunas of which are not figured in this work.

Square brackets are used in Table I for three purposes: (1) in the case of hemeral names, for equivalent terms used before the eventual name was decided on; (2) in some cases of altered names, to indicate the earlier name (see Table V for a fuller list); (3) to indicate plates replaced by others (see Table on p. 19).

A " ? " before a name indicates uncertainty as to hemeral position. The abbreviations " G.-t.," " G.-s.-t." and " G.-l.-t." denote respectively genotype (genoholotype), genosyntype and genolectotype (see Vol. I, p. viii). The terms imply genotype-species, and not genotype in the restricted sense explained by the Author in Vol. VI, pp. 5-7. On the plates themselves the term genotype is always used in this restricted sense.

The word " nov." after a specific name implies that the name dates from the publication of the first plate figuring it. Many other species were first named in the text of this work, but only figured at a later time: their names are followed by, *e.g.*, " S. Buckman 1921," and they are listed in Table VI.

Table II enables the particulars of any plate to be found by reference to its position in Table I.

Table III.—The taxonomic position refers to the classification given at the end of Vol. II, with additional families established and other alterations made in later volumes. The Editor has in many cases not ventured to assign a genus a place in the absence of any clear statement of the author's own views. The following gives a summary of the author's scheme as amended, and indicates the abbreviations used in the table:

IV. PHYLLOCAMPYLI.

3. PSILOCERATACEA: Psil[oceratidæ].
2. LYTOCERATACEA: Lyt[oceratidæ].
1. PHYLLOCERATACEA: Phyll[oceratidæ].

III. SCHISTOCAMPYLI.

3. KOSMOCERATACEA: Gow[ericeratidæ], Gul[ielmiceratidæ], Par[apatoceratidæ], Kos[moceratidæ].
2. STEPHEOCERATACEA: Asp[idoceratidæ], Atax[ioceratidæ]. Mac[rocephalitidæ], Morph[oceratidæ], Pach[yceratidæ], Park[insonidæ], Per[isphinctidæ], Pro[planulitidæ], Sph[aeroceratidæ], Step[heoceratidæ], Tul[itidæ], Zig[zagiceratidæ].
1. DEROCERATACEA: Der[oceratidæ], Dac[tylioceratidæ], Ham[matoceratidæ], Pol[ymorphidæ].

II. STENOCAMPYLI.

2. Opp[elidæ], Heb[etoxyitidæ], Liss[oceratidæ], Strig[oceratidæ], Cly[doniceratidæ].
1. Cad[oceratidæ].

I. PLATYCAMPYLI.

3. AMALTHACEA: Amal[theidæ], with sub-fam. Son[nininæ].
2. LIPAROCERATACEA: Lip[aroceratidæ].
1. AMMONITACEA: Hild[oceratidæ], Ech[ioceratidæ], Amm[onitidæ], Cym[bitidæ].

The "hemeral range" in Table III refers only to the species figured in this work.

Some of the new generic and trivial names given by Buckman, Neaverson and Spath to ammonites of Holcosphinctean, Allovirgatitan or Paravirgatitan age may prove to be synonyms of names given by Ilovaisky in a Russian paper of 1917, of which no copy exists at present in England.

Had unlimited space been available, an additional table might have been added, giving a full list of the figured species under each genus. This has been considered unnecessary, since, of the 407 genera illustrated, 223 are represented by only one species, and 120 more by several species all referred to the same hemera, under which a full list will be found in the chronological table. The remaining 64 genera are of longer range, and in their case reference to Table III, under "Range," will show the limits within which all the species will be found listed. Alternatively, the fifth and sixth columns in the same table give the full list of figured species by numbers, and direct reference can be made to the plates.

Tables IV, V and VI call for no comment.

The Editor acknowledges the valuable help received from various friends towards the compilation of these tables, and particularly from Dr. L. F. Spath, Dr. A. E. Trueman and Mr. J. W. Tutcher.

I. CHRONOLOGICAL LIST
OF SPECIES FIGURED IN THIS WORK.

	Plate.	Vol.	Date of issue.
47. GIGANTITAN.			
g.—glottodes.			
Glottoptychinites audax, nov.	717a, b.	VI	iv, 27.
glottodes, nov. G.-t.	403	IV	vi, 23.
f.—hippocephaliticus.			
Hippostratites hippocephaliticus, nov. G.-t.	495a, b.	V	vi, 24.
rhedarius, nov.	514	V	viii, 24.
e.—Briareites [*Titanites pars.*].			
Briareites polymeles, nov. G.-t.	257a.	III	ix, 21.
	257b, c.	III	xii, 21.
d.—Titanites [restr.].			
Titanites titan, nov. G.-t.	231a, b	III	vii, 21.
c.—Gigantites.			
Galbanites cretarius, nov.	621.	VI	xii, 25.
galbanus, nov. G.-t.	355a.	IV	xii, 22.
	355b.	IV	ii, 23.
Gigantites giganteus, J. Sowerby sp. 1816. G.-t.	256a, b.	III	ix, 21.
pachymeres, nov.	592a, b.	VI	viii, 25.
zeta, nov.	452a, b.	V	xii, 23.
b.—Trophonites.			
Galbanites mikrolobus, nov...	439	V	viii, 23.
Trophonites imperator, nov...	343a, b.	IV	x, 22.
pseudogigas, Blake sp. 1880	385a, b.	IV	iv, 23.
trophon, nov. G.-t.	325a, b.	IV	vi, 22.
a.—fasciger.			
Galbanites fasciger, nov.	451	V	xii, 23.
Pleuromegalites forticosta, nov. G.-t.	513	V	viii, 24.
	513a.	V	iv, 25.
46. BEHEMOTHAN.			
h.—vau.			
Vaumegalites vau, nov. G.-t.	536	V	xii, 24.
g.—leptolobatus.			
Crendonina subrotundata, nov. G.-t.	607	VI	x, 25.
Crendonites leptolobatus, nov. G.-t.	401	IV	vi, 23.
Simotoichites simus, nov. G.-t.	402a, b.	IV	vi, 23.
f.—kerberus.			
Kerberites kerberus, nov. G.-t.	520	V	x, 24.
	520a, b.	VI	ii, 26.
okusensis, Salfeld sp. 1913	570a, b.	V	vi, 25.
trikranus, nov.	535	V	xii, 24.
e.—polypreon [*leucus* / *Kerberites*].			
Gyromegalites polygyralis, nov. G.-t.	620a, b.	VI	xii, 25.
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b.—thouarsense.			
Costigrammoceras costigerum, nov. G.-t.	686	VI	xii, 26.
Grammoceras thouarsense, d'Orbigny sp. 1844. ..	774	VII	iv, 28.
a.—striatulum.			
Pleurolytoceras gubernator, Bean-Simpson sp. 1843.	70	II	v, 13.
Pseudolioceras compactile, Simpson sp. 1855.	41a, b.	I	xi, 11.

15. HAUGIAN.

e.—pauper.

d.—grandis [*variabilis* pars].

Catacœloceras confectum, nov. G.-t.	413	IV	viii, 23.

c.—variabilis.

Denckmannia rudis, Simpson sp. 1843	14	I	iii, 10.
Haugia beani, Simpson sp. 1843	15	I	iii, 10.
Pelecoceras obliquatum, Young & Bird sp. 1828 ..	234a, b.	III	vii, 21.
Phymatoceras fabale, Simpson sp. 1855	244	III	ix, 21.
phillipsi, Simpson sp. 1843	85	II	xi, 13.
Thysanoceras cornucopia, Young & Bird sp. 1822..	391a.	IV	iv, 23.
	391b, c.	IV	vi, 23.

b.—malagma [*lilli/variabilis*].

? Catacœloceras puteolum, Simpson sp. 1855 ..	61	I	x, 12.
? Pseudolioceras lectum, Simpson sp. 1843	43	I	xi, 11.
? whitbiense, nov.	42	I	xi, 11.
? Whitbyiceras pingue, Simpson sp. 1855	80	II	viii., 13.

a.—lilli.

Nodicœloceras crosbeyi, Simpson sp. 1843	60	I	v, 12.

14. HILDOCERATAN.

m.—semipolitum.

Hildoceras semicosta, nov.	685	VI	xii, 26.

l.—subplanatum.

k.—vigoense.

Maconiceras lassum, nov.	722	VII	vi, 27.
soloniacense, Lissajous sp. 1906	721	VII	vi, 27.
vigoense, nov. G.-t.	684	VI	xii, 26.

j.—braunianus.

Parvidactylites parvus, S. Buckman 1927. G.-t...	779	VII	iv, 28.
? Pseudolioceras boulbiense, Young & Bird sp. 1822	11	I.	xii, 09.
? lythense, Young & Bird sp. 1828	13	I.	iii, 10.
Zugodactylites braunianus, d'Orbigny sp. 1845. G.-t.	658	VI	viii, 26.
mutatus, nov.	720	VII	vi, 27.
rotundiventer, nov.	743	VII	x, 27.

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i.—ibulatum.			
Peronoceras fibulatum, J. de C. Sowerby sp. 1823, G.–t.	683	VI	xii, 26.
præpositum, nov.	701	VI	ii, 27.
Porpoceras andræi, Simpson sp. 1843	57	I	v, 12.
perarmatum, Young & Bird sp. 1822 ..	50	I	ii, 12.
verticosum, nov...	91	II	i, 14.
vortex, Simpson sp. 1855. G.–t.	29a, b.	I.	iii, 11.
vorticellum, Simpson sp. 1855	90	II	xi, 13.
Spinicœloceras annuliferum, Simpson sp. 1855 ..	63	I	x, 12.
h.—bifrons.			
Curvidactylites curvicosta, S. Buckman 1927 G.–t.	708	VI	iy, 27.
Hildoceras bifrons, Bruguière sp. 1789	114a, b.	II	vii, 18.
hildense, Young & Bird sp. 1822	667	VI	x, 26.
walcotti, J. Sowerby sp. 1815	773	VII	iv, 28.
	773a.	VII	vi, 28.
Koinodactylites communis, J. Sowerby sp. 1815. G.–t.	707	VI	iv, 27.
Lobolytoceras perlobulatum, nov. G.-t. [siemensi..	440	V	xii, 23.]
	440*	V	x, 24.
	440a.	V	iv, 25.
Multicœloceras multum, S. Buckman 1926. G.-t. ..	785	VII	vi, 28.
Nomodactylites temperatus, S. Buckman 1927. G.-t.	731	VII	viii, 27.
Planulites sulcatus, Lamarck sp. 1801. G.–t... ..	393	IV	vi, 23.
g.—lobatum.			
Harpoceras falciferum, J. Sowerby sp. 1820. G.-t...	764	VII	ii, 28.
	764a.	VII	vi, 28.
Lobodactylites lobatum, S. Buckman 1926. G.-t. ..	730	VII	viii, 27
Peridactylites consimilis, S. Buckman 1927. G.-t...	778	VII	iv, 28.
f.—vermis.			
Vermidactylites vermis, Simpson sp. 1855. G.-t. ..	68	II	v, 13.
	68a.	VI	ii, 27.
e.—subcarinata.			
Arcidactylites arcus, nov. G.–t.	657	VI	viii, 26.
Crassicœloceras crassum, Young & Bird sp. 1828 ..	119	II	xii, 18.
foveatum, Simpson sp. 1855	69	II	v, 13.
Frechiella subcarinata, Young & Bird sp. 1822. G.–t.	23	I	iii, 10.
	23a.	IV	ii, 23.
? Harpoceras concinnum, nov.	742	VII	x, 27.
d.—pseudovatum.			
Ovaticeras ovatum, Young & Bird sp. 1822. G-t...	111a.	II	iv, 18.
pseudovatum, S. Buckman sp. 1910 ..	111b, c.	II	iv, 18.
c.—Harpocerate (small).			
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Hildoceratoides propeserpentinus, nov. G.–t... ..	218	III	iii, 21.
serpentinus, Reinecke sp. 1818 ..	138a.	III	viii, 19.
	138c.	VI	x, 26.
Orthildaites orthus, nov. G.–t...	444	V	xii, 23.
a.—crassoides.			
Nodicœloceras crassoides, Simpson sp. 1855	89	II	xi, 13.
	89a.	VII	viii, 27.
13. HARPOCERATAN.			
t.—metorchion.			
Orcholytoceras appropinquans, nov.	681	VI	xii, 26.
metorchion, nov. G.–t.	666	VI	x, 26.

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s.—falcula.			
Harpoceras falcula, nov.	682	VI	xii, 26.
Phaularpites exiguus, nov. G.-t.	775a, b.	VII	iv, 28.
Spinicœloceras spicatum, S. Buckman 1927. G.-t.. .	777	VII	iv, 28.
r.—tardum.			
Tardarpoceras tardum, nov. G.-t.	741	VII	x, 27.
Toxodactylites toxophorus, S. Buckman 1927. G.-t.	776	VII	iv, 28.
q.—falciferum.			
Crassicœloceras pingue, S. Buckman 1926. G.-t. ..	728	VII	viii, 27.
Dactylioceras annulatum, J. Sowerby sp. 1819. ? G.-t.	700	VI	ii, 27.
crassulum, Simpson sp. 1843	208	III	iii, 21.
Harpoceras falciferoides, nov.	749	VII	xii, 27.
mulgravium, Young & Bird sp. 1822 ..	4a, b.	I	xii, 09.
Nodicœloceras acanthus, d'Orbigny sp. 1850	729a, b.	VII	viii, 27.
crassescens, Simpson sp. 1855	719	VII	vi, 27.
Pseudolioceras subconcavum, Young & Bird sp. 1828	10	I	xii, 09.
p.—Hildaites.			
Hildaites levisoni, Simpson sp. 1843	12	I	iii, 10.
serpentiniformis, nov.	138b.	III	viii, 19.
	267b.	IV.	vi, 23.
subserpentinus, nov. G.-t.	217	III	iii, 21.
o.—anguinum [delicatum].			
Anguidactylites delicatum, Bean-Simpson sp. 1855. .	656	VI	viii, 26.
n.—anguiformis.			
Anguidactylites anguiformis, S. Buckman 1926. G.-t.	763	VII	ii, 28.
m.—Harpoceratoides [strangwaysi].			
Glyptarpites glyptus, nov. G.-t.	740	VII	x, 27.
Harpoceratoides alternatus, Simpson sp. 1843. G.-t.	9	I	xii, 09.
strangwaysi, J. Sowerby sp. 1820. .	739	VII	x, 27.
l.—murleyi.			
Murleyiceras aptum, nov.	316	IV	vi, 22.
forte, nov.	245	III	ix, 21.
murleyi, J. Buckman-Moxon sp. 1841. G.-t.	216	III	iii, 21.
k.—crenatum.			
Crenilytoceras crenatum, nov. G.-t.	665	V	x, 26.
formosum, nov.	680	VI	xii, 26.
Murleyiceras gyrale, nov.	772	VII	iv, 28.
j.—exaratum.			
Dactylioceras crassiusculosum, Simpson sp. 1855 ..	62	I	x, 12.
gracile, Simpson sp. 1843	107	II	vi, 14.
Harpoceras exaratum, Young & Bird sp. 1828 ..	5	I	xii, 09.
Microdactylites attenuatus, Simpson sp. 1855 ..	655	VI	viii, 26.
Nodicœloceras fonticulum, Simpson sp. 1855	59	I	v, 12.
Phylloceras fabricatum, Simpson sp. 1855	34	I	iv, 11.
Pseudolioceras erratum, Simpson sp. 1843	188	III	xi, 20.
Trachylytoceras fasciatum, Simpson sp. 1855.. ..	87	II	xi, 13.
nitidum, Young & Bird sp. 1828. G.-t.	86	II	xi, 13.
i.—[Grantham Ammonites].			
h.—Eleganticeras.			
Eleganticeras pseudo-elegans, S. Buckman 1913. G.-t.	110	II	iv, 18.

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g.—Elegantuliceras.			
Elegantuliceras elegantulum, Young & Bird sp. 1828.			
G.-t.	93	II	i, 14.
ovatulum, Simpson sp. 1855	106	II	vi, 14.
f.—tenuicostatus.			
Kryptodactylites semicelatus, Simpson sp. 1843.			
G.-t.	31	I	iv, 11.
	31a.	VII	vi, 27.
? Peronoceras turriculatum, Simpson sp. 1855 ..	30	I	iii, 11.
Tenuidactylites tenuicostatus, Young and Bird sp. 1822.			
G.-t.	157	III	vi, 20.
	157a.	VI	iv, 27.
e.—Tiltoniceras.			
? Athlodactylites crassulosum, Simpson sp. 1855 ..	58	I	v, 12.
Tiltoniceras costatum, S. Buckman 1913	97	II	i, 14.
d.—athleticus.			
Athlodactylites athleticus, Simpson sp. 1855.			
G.-t.	51a, b.	I	ii, 12.
Simplidactylites crassiusculum, Simpson sp. 1855 ..	209	III	iii, 21.
c.—directus.			
Orthodactylites directus, nov. G.-t.	654	VI	viii, 26.
mitis, nov.	738	VII	x, 27.
b.—helianthoides.			
Xeinodactylites helianthoides, Yokoyama sp. 1904			
G.-t.	699	VI	ii, 27.
a.—paltus.			
Paltarpites paltus, nov. G.-t.	362a.	IV	xii, 22.
	362b.	IV	ii, 23.
12. AMALTHEIAN.			
m.—hawskerense.			
Paltopleuroceras hawskerense, Young & Bird sp. 1828	408	IV	viii, 23.
l.—regulare.			
Paltopleuroceras regulare, Simpson sp. 1855	77	II	viii, 13.
k.—spinatum.			
Amaltheus reticularis, Simpson sp. 1843	1	I	xii, 09.
Paltopleuroceras birdi, Simpson sp. 1843	24	I	iii, 11.
bisulcatum, Bruguière sp. 1789 ..	392	IV	vi, 23.
buckmannii, Moxon sp. 1841 ..	199a, b.	III	i, 21.
	? 199c.	V	vi, 24.
elaboratum, Simpson sp. 1884 ..	22	I	iii, 10.
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Argutarpites argutus, nov. G.-t.	363	IV	ii, 23.
Platyharpites platypleurus, [nov.]. G.-t.	698	VI	ii, 27.
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h.—margaritatus.			
Amaltheus sedgwickii, J. Buckman sp. 1844	125	II	iv, 18.
Anisoloboceras nautiliforme, J. Buckman sp. 1844.			
G.-t.	37a, b, c, d.	I	iv, 11.
Lytoceras furcicrenatum, nov.	784a, b, c.	VII	vi, 28.

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g.—lenticulare.			
Amauroceras lenticulare, Young & Bird sp. 1828 ..	20	I	iii, 10.
f.—lævis.			
Amauroceras ferrugineum, Simpson sp. 1855. G.-t.	142	III	x, 19.
e.—Seguenziceras [algovianum].			
? Amaltheus depressus, Simpson sp. 1843	25	I	iii, 11.
Seguenziceras nitescens, Young & Bird sp. 1828 ..	74	II	v, 13.
d.—clevelandicus.			
Amaltheus clevelandicus, Young & Bird sp. 1828 ..	109	II	iv, 18.
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b.—boscense.			
a.—fieldingi.			

11. LIPAROCERATAN.

f.—Oistoceras [striatum].			
Oistoceras figulinum, Simpson sp. 1855. G.-t.	26a, b.	I	iii, 11.
omissum, Simpson sp. 1855	27	I	iii, 11.
e.—dædalicosta.			
Androgynoceras maculatum, Young & Bird sp. 1822	45a, b.	I	ii, 12.
d. — davœi.			
c. — latæcosta.			
Androgynoceras heterogenes, Young & Bird sp. 1828	46	I	ii, 12.
Tragophylloceras ambiguum, Simpson sp. 1843 ..	16	I	iii, 10.
b.—Beaniceras.			
Beaniceras centaurus, d'Orbigny sp. 1844	146	III	x, 19.
costatum, nov.	123	II	iii, 19.
crassum, nov.	147	III	x, 19.
luridum, Simpson sp. 1855. G.-t. ..	73	II	v, 13.
rotundum, nov.	129	II	xii, 18.
senile, nov.	126	II	iv, 18.
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Defossiceras defossum, Bean-Simpson sp. 1843. G.-t.	76	II	viii, 13.
Tragophylloceras nanum, Simpson sp. 1855	679	VI	xii, 26.
a.—cheltiense.			
Liparoceras heptangulare, Young & Bird sp. 1828..	108a, b, c.	II	vi, 14.

10. POLYMORPHITAN.

l.—actæon.

k.—valdani.

j.—maugenesti [ibex].			
Tragophylloceras huntoni, Simpson sp. 1843	219	III	iii, 21.
numismalis, Quenstedt sp. 1846 ..	233	III	vii, 21.
robinsoni, Simpson sp. 1843	220	III	iii, 21.
i.—masseanus.			
h.—pettos.			
Cœloceras incrassatum, Simpson sp. 1855	210	III	iii, 21.

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g.—jamesoni.			
Platypleuroceras aureum, Simpson sp. 1855	3	I	xii, 09.
Uptonia ignota, Simpson sp. 1855	21	I	iii, 10.
ripleyi, Simpson sp. 1843	2	I	xii, 09.
f. — obsoleta.			
Uptonia obsoleta, Simpson sp. 1843	92	II	i, 14.
e.—brevispina.			
Parinodiceras reineckii, Quenstedt sp. 1884	748a, b.	VII	xii, 27.
d.—polymorphus.			
Fimbrilytoceras fimbriatum, J. Sowerby sp. 1817. G.-t.	130a, b, c.	II	iii, 19.
Kallilytoceras interlineatum, nov. G.-t.	204a, b.	III	i, 21.
Polymorphites jupiter, d'Orbigny sp. 1850	53	I	v, 12.
mixtus, Quenstedt sp. 1846			
trivialis, Simpson sp. 1843			
c.—phyllinus.			
Homoxynoticeras homœum, nov. G.-t.	575	V	vi, 25.
Kleistoxynoticeras columellatum, nov. G.-t.	576	V	vi, 25.
Metoxynoticeras oppeli, Schloenbach sp. 1863	574	V	vi, 25.
Phylloxynotites phyllinus, nov. G.-t.	465	V	ii, 24.
b.—peregrinus.			
a.—Phricodoceras.			
Jamesonites reticulatus, nov. G.-t.	407	IV	viii, 23.
Phricodoceras cornutum, Simpson sp. 1843	32	I	iv, 11.
lamellosum, d'Orbigny sp. 1844 ..	149a, b, c.	III	iii, 20.
	149d.	III	vi, 20.
quadricornutum, Simpson sp. 1855 ..	33	I	iv, 11.

9. Deroceratan.

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s.—leckenbyi.			
Apoderoceras ferox, nov.	541	V	ii, 25.
hamiltoni, Simpson sp. 1843	530a, b.	V	xii, 24.
lobulatum, nov. G.-t.	235	III	vii, 21.
tardarmatum, nov.	542a, b.	V	ii, 25.
triornatum, nov.	783a, b.	VII	vi, 28.
r.—defluxum.			
Epideroceras defluxum, nov.	426	V	x, 23.
exhæredatum, nov.	441	V	xii, 23.
q.—Euechioceras.			
Euechioceras nobile, Trueman & Williams 1925. G.-t.	482*	VI	vi, 26.
[=Leptechioceras aplanatum ; S.B. non Hyatt ..	482	V	iv, 24.]
Stenechioceras angustilobatum, T. & W. 1925. G.-t.	697	VI	ii, 27.
p.—aplanatum [*Metechioceras*].			
Metechioceras aplanatum, Hyatt sp. 1889	640	VI	vi, 26.
Paltechioceras elicitum, nov. G.-t.	483	V	iv, 24.
o.—macdonnellii.			
Leptechioceras macdonnellii, Portlock sp. 1843 ..	443	V	xii, 23.
n. — planum.			
Leptechioceras planum, Trueman & Williams 1925	696	VI	ii, 27.
m.—Plesechioceras.			
Plesechioceras typus, nov. G.-t.	694	VI	ii, 27.
Pleurechioceras typicum, nov. G.-t.	695	VI	ii, 27.

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l.—raricostatoides.			
Echioceras crassicostatum, Trueman & Williams, nov.	553	V	iv, 25.
iridescens, Trueman & Williams, nov. ..	554	V	iv, 25.
notatum, Trueman & Williams, nov. ..	552	V	iv, 25.
raricostatoides, Vadasz 1908	425	V	x, 23.
k. — boreale.			
j.—tubellus.			
Tubellites tubellus, Simpson sp. 1855. G.-t. ..	491	V	vi, 24.
i.—rhodanicum.			
h.—costidomus.			
g. — simile.			
Homechioceras simile, Trueman & Williams nov. G.-t.	609	VI	xii, 25.
f. — miles.			
Deroceras miles, Simpson sp. 1855	44	I	xi, 11.
e.—armatum.			
Deroceras aculeatum, Simpson sp. 1843	72a, b, c.	I	v, 13.
hastatum, Young & Bird sp. 1828	102a, b.	II	iii, 14.
impavidum, nov.	104	II	vi, 14.
mutatum, Simpson sp. 1855	105	II	vi, 14.
nativum, Simpson sp. 1855	84	I	xi, 13.
owenense, Simpson sp. 1843	65	I	x, 12.
retusum, Simpson sp. 1855	82	I	viii, 13.
sinuatum, Simpson sp. 1855	94	II	i, 14.
sociale, Simpson sp. 1855	95	II	i, 14.
spicatum, Simpson sp. 1843	103	II	vi, 14.
subtriangulare, Young & Bird sp. 1822..	71a, b.	I	v, 13.
validum, Simpson sp. 1855	83	I	viii, 13.
d.—anguiforme.			
Deroceras anguiforme, Simpson sp. 1843	64	I	x, 12.
	64a.	V	vi, 24.
c.—bispinigerum.			
b.—subplanicosta.			
Microceras subplanicosta, Oppel sp. 1856	509	V	viii, 24.
vitreum, Simpson sp. 1855	529	V	xii, 24.
a.—densinodulum [*densinodum*].			
Crucilobiceras crucilobatum, nov. G.-t.	178	III	ix, 20.
densinodulum, nov.	442	V	xii, 23.

8. OXYNOTICERATAN.

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k.—armatoid.

j.—glevense.

Gleviceras glevense, S. Buckman sp. 1918. G.-t. ..	526	V	xii, 24.
Glevumites subguibalianus, Pià sp. 1914. G.-t. ..	527	V	xii, 24.

i.—rothpletzi [1st *Echioceras*].

Echioceras aureolum, Simpson sp. 1855.	28	I	iii, 11.
	96	II	i, 14.
cereum, Simpson sp. 1855	49	I	ii, 12.
exortum, Simpson sp. 1855	19	I	iii, 10.

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h.—Radstockiceras.			
Fastigiceras clausum, nov. G.-t.	144	III	x, 19.
Tutchericeras perfoliatum, nov. G.-t.	137a.	III	viii, 19.
	137b.	III	iii, 20.
Victoriceras victoris, Dumortier sp. 1867. G.-t. ..	136a, b.	III	viii, 19.
	136c.	III	x, 19.
g.—polyophyllum.			
Oxynoticeras buckii, Simpson sp. 1843	165a, b.	III	vi, 20.
polyophyllum, Simpson sp. 1843	8	I	xii, 09.
f.—oxynotum.			
Oxynoticeras arctum, Simpson sp. 1843	36	I	iv, 11.
dennyi, Simpson sp. 1843	7	I	xii, 09.
flavum, Simpson sp. 1843	55	I	v, 12.
limatum, Simpson sp. 1843	56	I	v, 12.
oxynotum, Quenstedt sp. 1843	143a.	III	x, 19.
Parechioceras finitimum, Bean–Blake sp. 1876 ..	100a, b.	II	iii, 14.
neglectum, Simpson sp. 1855	101	II	iii, 14.
e.—biferum.			
Bifericeras biferum, Quenstedt sp. 1846 G.-t. ..	124	II	iv, 18.
nudicosta, Quenstedt sp. 1856	128	II	xii, 18.
parvum, S. Buckman sp. 1904	127	II	xii, 18.
d.—simpsoni.			
Agassiceras simpsoni, Bean–Simpson sp. 1843 ..	66a, b.	I	x, 12.
Retenticeras retentum, Simpson sp. 1855. G.-t. ..	166	III	vi, 20.
c.—Gagaticeras.			
Androgynoceras integricostatum, Simpson sp. 1855 ..	47	I	ii, 12.
siphunculare, Simpson sp. 1843 ..	48	I	ii, 12.
Gagaticeras funiculatum, nov.	122	II	iii, 19.
gagateum, Young & Bird sp. 1828. G.-t.	78	II	viii, 13.
b.—lacunata.			
a.—subpolita.			
Angulaticeras sulcatum, Simpson sp. 1843	38	I	xi, 11.

7. ASTEROCERATAN.

g.—denotatus.			
Arietites denotatus, Simpson sp. 1855	67a, b.	I.	x, 12.
impendens, Young & Bird sp. 1828	120	II	iii, 19.
f. — stellare.			
Arietites radiatus, Simpson sp. 1843	35	I	iv, 11.
tenellus, Simpson sp. 1855	54	I	v, 12.
e.—planicosta.			
Xipheroceras binodulatum, nov.	706a, b.	VI	iv, 27.
revertens, nov.	771a, b.	VII	iv, 28.
scoresbyi, Simpson sp. 1843	39a, b, c.	I	xi, 11.
ziphus, Hehl-Zieten sp. 1830	632	VI	iv, 26.
d.—sagittarium.			
c.—obtusum.			
b.—turgescens.			

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a. — turneri.			
Arietites turneri, J. de C. Sowerby sp. 1824. G.-l.-t.	221a, b.	III	v, 21.
Cænisites cæneus, nov. G.-t.	572	V	vi, 25.

6. MICRODEROCERATAN.

h.—inflatum.

g. — ploti.

f. — birchi.

Microderoceras gigas, Quenstedt sp. 1883	762a, b.	VII	ii, 28.

e.—hartmanni.

Anaptychus (Arnioceras hartmanni ? Oppel sp. 1856)	424	V	x, 23.

d. — brooki.

c.—sulcifer.

b.—nodulosum.

a.—alcinoë.

5. AGASSICERATAN.

e.—sauzeanum.

Euagassiceras personatum, Bean-Simpson sp. 1843..	187	III	xi, 20.
resupinatum, Simpson sp. 1843 ..	6	I	xii, 09.
transformatum, Simpson sp. 1855 ..	75	II	viii, 13.

d.—striaries.

c.—pseudokridion.

b.—colesi [scipionianum].

Agassiceras [Ætomoceras] nodulatum, nov.	222	III	v, 21.

a.—acuticarinatum [semicostatum].

Arnioceras acuticarinatum, Simpson sp. 1855	40	I	xi, 11.
semicostatum, Young & Bird sp. 1828.	112	II	viii, 18.

4. CORONICERATAN.

f.—gmuendense.

Paracoronites noduliferus, nov. G.-t.	737a, b.	VII	x, 27.
Primarietites primitivus, nov. G.-t...	678	VI	xii, 26.

e.—meridionalis.

Megarietites meridionalis, Reynès sp. 1879	518	V	x, 24.
	518a, b.	VII	x, 27.

d.—charmassei.

c.—bucklandi.

Ammonites [Coroniceras] bucklandi, J. Sowerby 1816	131	III	viii, 19.
	131a.	IV	vi, 23.

b. — kridion.

	Plate.	Vol.	Date of issue.
a. — rotator.			
Diplosellites rotarius, nov. G.-t.	571	V	vi, 25.
Keynshamites keelingi, Tutcher sp., nov. G.-t. ..	653a, b.	VI	viii, 26.

3. VERMICERATAN.

c. — scylla.

b.—brevidorsale.

a.—longidomus.

2. SCHLOTHEIMIAN [CALOCERATAN pars].

g.—acuticosta.

Scamnoceras acuticosta, Strickland-J. Buckman sp. 1844.	551	V	iv, 25.
f.—marmorea [angulata].			
Schlotheimia princeps, nov.	395	IV	vi, 23.
redcarensis, Young & Bird sp. 1822	608	VI	xii, 25.

e.—phœnix.

d.—gallica.

c.—prometheus.

b.—*laqueus [megastoma].*			
Caloceras belcheri, Simpson sp. 1843.	17	I	iii, 10.
convolutum, Simpson sp. 1855	18	I	iii, 10.
Macrogrammites antiquata, Simpson sp. 1855.. ..	[718a, b.	VII	vi, 27.]
	718a*, b*.	VII	ii, 28.
grammicus, nov. G.-t.	761a, b.	VII	ii, 28.

a.—hagenowi.

1. PSILOCERATAN [CALOCERATAN pars].

g.—portlocki.

f.—johnstoni.

Caloceras pirondii, Reynès sp. 1879	304	IV	v, 22.
Franziceras ruidum, nov. G.-t...	423	V	x, 23.

e.—plicatus.

d.—psilonotus.

c.—erugatum.

Psiloceras erugatum, Bean-Phillips sp. 1829	223	III	v, 21.

b.—æquabile.

Psiloceras æquabile, nov.	390	IV	iv, 23.

a.—planorbis.

II.—PLATE-NUMBERS REFERRED TO HEMERÆ (TABLE 1).

Plate No.	*Hemera.*
1	12k
2–3	10 g
4	13q
5	13j
6	5e
7	8f
8	8g
9	13m
10	13q
11	14j
12	13p
13	14j
14–15	15c
16	11 c
17–18	2b
19	8i
20	12g
21	10 g
22	12k
23	14e
24	12k
25	12e
26–27	11f
28	8i
29	14i
30–31	13f
32–33	10 a
34	13j
35	7f
36	8f
37	12h
38	8a
39	7e
40	5a
41	16a
42–43	15b
43	15c
44	9f
45	11e
46	11c
47–8	8c
49	8i
50	14i
51	13d
52	12k
53	10 d
54	7f
55–6	8f
57	14i
58	13e
59	13j
60	15a
61	15b
62	13j
63	14i
64	9d
65	9e
66	8d
67	7g
68	14f
69	14e
70	16a
71–2	9e
73	11b
74	12e
75	5e
76	11b
77	12l
78	8c
79	16e
80	15b
81	20s
82–4	9e
85	15c
86–7	13j
88	16f
89	14a
90–1	14i
92	10 f
93	13g
94–5	9e
96	8i
97	13e
98	29b
99	31m
100–1	8f
102–5	9e
106	13g
107	13j
108	11a
109	12d
110	13h
111	14d
112	5a
113	31k
114	14h
115	32c
116	32d
117	32h
118	32d
119	14e
120	7g
121	31k
122	8c
123	11b
124	8e
125	12h
126	11b
127–8	8e
129	11b
130	10 d
131	4c
132	33r
133	20 h
134–5	20 r
136–7	8h
138a, c	14b
138b	13p
139	36b
140	20 g
141	20-o
142	12f
143a	8f
144	8h
145	31k
146–7	11b
148	31n
149	10 a
150	20 s
151	21c
152	21a
153	23a
154	31p
155	36c
156	33r
157	13 f
158	20 s
159	21c
160–1	21f
162	22b
163	21g
164	20 l
165	8g
166	8d
167	25h
168	20 o
169	21g
170	32d
171	32e
172	31p
173–4	23a
175–6	22c
177	22a
178	9a
179–80	20 b
181	20 k
182	16c
183	31k
184	34d
185–6	32d
187	5e
188	13j
189	21g
190	22b
191–2	21g
193	24a
194	29e
195–7	32d
198	33s
199	12k
200	22a
201–2	21f
203	22c
204	10 d
205	20 r
206–7	17a
208	13q
209	13d
210	10 h
211	22c
212	32d
213	29a
214	20 r
215	20 s
216	13l
217	13p
218	14b
219–20	10 j
221	7a
222	5b
223	1c
224	33g
225	35a
226–7	29a
228	29j
229	21a
230	20 s
231	47d
232	29c
233	10j
234	15c
235	9s
236	19f
237	19g
238	21a
239–42	21g
243	33q
244	15c
245	13l
246	19e
247	22a
248–50	20 s
251	29a
252	29c
253	29j
254	29a
255	29j
256	47c
257	47e
258	21g
259	23b
260	33n
261–3	31k
264	20 h
265	20 s
266	17f
267	13p
268–70	25i
271	25d
272	25g
273	25f
274	25h
275	29j
276	20 h
277	20 g
278–9	20 r
280	33n
281	29a
282	34a
283	29f
284	28e
285	25h
286	28b
287–8	29a
289	28g
290	29h
291	29j
292	28g
293	29j
294	29i
295	33t
296	33a
297	32d
298	20 t
299	20 b
300	23b
301	23c
302	23f
303	20 s
304	1f
305	46b
306	46c
307	46d
308	44f

Plate No.	Hemera.
309	29i
310	28g
311–2	22c
313	28e
314	20 h
315	19e
316	13l
317	20 b
318–9	28g
320	32f
321–2	23a
323–4	21d
325	47b
326	22a
327	23a
328	28a
329	29f
330	29a
331	29k
332	31k
333	33h
334	28f
335	23a
336	29a
337	22a
338	25c
339	31p
340	16f
341	20 l
342	46b
343	47b
344	20 n
345	20 r
346	26a
347	28c
348	28e
349	33r
350	21c
351	23a
352	22a
353	44g
354	44d
355	47c
356	19e
357	21c
358	22a
359	23a
360	29i
361	33l
362	13a
363	12j
364	32g
365	44b
366	22b
367	25a
368–9	25e
370–1	25b
372	28d
373	28f
374	21g
375	33k
376	23a
377	22c
378	25f
379	29i
380	33r
381	44d
382	44f

Plate No.	Hemera.
383–4	44b
385	47b
386	22c
387	20 k
388	20 a
389	31h
390	1b
391	15c
392	12k
393	14h
394	16f
395	2f
396–7	20 b
398	20 n
399	20 l
400	20 n
401–2	46g
403	47g
404	29a
405	32e
406	29a
407	10 a
408	12m
409	19d
410	20 o
411	20 l
412	20 t
413	15d
414	20 l
415	21c
416	23a
417	29f
418	31a
419	31h
420	33 o
421	36c
422	36d
423	1f
424	6e
425	9l
426	9r
427	20 l
428–30	20 s
431	21c
432	21f
433	28f
434–5	29f
436–7	31l
438	33m
439	47b
440	14h
441	9r
442	9a
443	9 o
444	14 b
445	20 c
446	22b
447	22c
448	34c
449	33q
450	34a
451	47a
452	47c
453	24b
454	34e
455–6	20 s
457	20 r
458	21g

Plate No.	Hemera.
459	32a
460	20 l
461	20 s
462	29a
463	33p
464	36c
465	10c
466	19h
467	20 c
468	20 k
469	20 o
470	22a
471	21g
472	22c
473	20 s
474	21b
475	20 m
476	26b
477	20 r
478	22c
479	23e
480–1	22e
482	9q
483	9p
484	23g
485	31h
486	31g
487	31e
488–90	31i
491	9j
492	22a
493	22e
494	37e
495	47f
496–8	20 n
499	23a
500	27a
501	31j
502	31g
503	31a
504	31n
505	26c
506	27b
507	29k
508	32b
509	9b
510	22c
511–2	34a
513	47a
514	47f
515	28a
516	20 s
517	20 l
518	4e
519	20 s
520	46 f
521	31a
522	30 e
523	28d
524	21c
525	21f
526–7	8j
528	20u
529	9b
530	9s
531	31b
532	29d
533	37a

Plate No.	Hemera.
534	46a
535	46f
536	46h
537	29i
538	29g
539–40	22a
541–2	9s
543	21f
544–5	22b
546	23a
547	23d
548	31i
549	31g
550	37i
551	2g
552–4	9l
555	19e
556	20 o
557	20 s
558	28e
559	31f
560	35a
561	44b
562	44c
563	33d
564	33f
565	31g
566	34b
567	38j
568	42a
569	42c
570	46f
571	4a
572	7a
573	17e
574–6	10 c
577	19b
578	19e
579	19h
580	20 o
581	21g
582–4	22a
585	22c
586	29e
587	30 a
588	33i
589	35b
590	44g
591	46e
592	47c
593	20 l
594	20 o
595	23b
596	28a
597	31b
598	31f
599	33j
600	33n
601–2	44c
603	44f
604–6	44g
607	46g
608	2f
609	9g
610	19d
611	20 t
612	22a
613	23e

Plate No.	Hemera.
614	29i
615	31h
616	33a
617–8	33e
619	33s
620	46e
621	47c
622	22c
623–4	23b
625	31m
626	31 o
627	33n
628	33 o
629–30	33p
631	20 s
632	7e
633	33a
634–5	33p
636	33s
637–8	43a
639	44g
640	9p
641	19e
642	20 q
643	23a
644	24b
645	29a
646	31j
647	33p
648–9	33s
650	34b
651–2	44c
653	4a
654	13c
655	13j
656	13 o
657	14e
658	14j
659	20 s
660	21e
661	31m
662	33d
663	34a
664	44c
665	13k
666	13t
667	14h
668	17c
669	20 l
670	21f
671	21h
672	35b
673	42c
674	44g
675	45a
676	46a
677	46d
678	4f
679	11b
680	13k
681	13t
682	13s
683	14i
684	14k
685	14m
686	16b
687	20 n
688–9	20 o
690	33a
691	33p
692	43a
693	45a
694–5	9m
696	9n
697	9q
698	12j
699	13b
700	13q
701	14i
702	20 n
703	33a
704	36c
705	44d
706	7e
707–8	14h
709	20 l
710–1	20 p
712	20 r
713	22a
714	34a
715	34b
716	37a
717	47g
718	2b
719	13q
720	14j
721–2	14k
723	20 r
724	21c
725	21f
726	22a
727	31g
728–9	13q
730	14g
731	14h
732–3	20 r
734	21c
735	31g
736	34a
737	4f
738	13c
739–40	13m
741	13r
742	14e
743	14j
744	20 p
745	20 o
746	21c
747	36b
748	10 e
749	13q
750	20 k
751	20 n
752–3	20 u
754	21a
755–7	21c
758	23a
759	31b
760	33q
761	2b
762	6f
763	13n
764	14g
765–6	20 o
767	22c
768	22e
769	23a
770	33 q
771	7e
772	13k
773	14h
774	16b
775	13s
776	13r
777	13s
778	14g
779	14j
780	21e
781	22d
782	33q
783	9s
784	12h
785	14h
786–7	19c
788	21e
789	22a
790	22f

III. ALPHABETICAL LIST OF GENERA

FIGURED OR REFERRED TO IN THIS WORK.

Only genera illustrated by plates are numbered. *Angulaticeras*, having been overlooked until the tables were in type, has received the number 17a, in order to avoid a general shifting of notation. Genera only casually referred to are not included.

Ref. No.	*Genus.*	*Taxonomic Position.*	*Hemeral Range.*	*Plate of Genotype.*	*Plate of other species.*	*Text reference (Vol. and page).*
1.	Abbasites, S.B. 1921	III, 1, Ham.	19f.	236		
	Ægoceras [*see* Anisoloboceras]	..	..	..	..	I, *iii*.
	Ætomoceras [*see* Agassiceras]	..	..	..	..	I, *vii*.
2.	Agassiceras, Hyatt 1875 .. [*see also* Euagassiceras]	I, i, Amm.	5b–8d.	..	66a, b, 222	I, *vii*; V, 33.
3.	Alligaticeras, S.B. 1923 ..	III, 2, Per.	32d.	212 ..	..	IV, 57.
4.	Allovirgatites, Neaverson 1925	III, 2, Per ?	43a.	637, ..	638a, b, c, d, 692.	VI, 9.
5.	Alocolytoceras, Hyatt 1900 ..	IV, 2, Lyt.	16f ?	..	88	
	Alsatites, Haug 1894	IV, 3, Psil,	..	..	..	I, *vii*.
6.	Amaltheus, Montfort 1808 ..	I, 3, Amal.	12d–k.	..	1, 25, 109, 125	
7.	Amauroceras, S.B. 1913 ..	I, 3, Amal.	12f–g.	142	20	II, *vii*, *xv*.
8.	Ambersites, S.B. 1921	III, 1, Ham.	19g.	237.	..	
	Amblycoceras, Hyatt 1900 ..	I, 2, Lip.		..	..	III, 13.
9.	Amblyoxyites, S.B. 1922 ..	II, 2, Heb.	20r.	303	..	V, 8.
10.	Ammonites, Bruguière 1789 ..	I, 1, Amm.	4c.	131, a.	..	IV, 56; V, 12, 33.
11.	Amœbites, S.B. 1925	II, Cad.	37i.	550		
	Amœboceras, Hyatt 1900 ..	II, Cad.	..	..	..	III., 21.
12.	Anacardioceras, S.B. 1923 ..	II. Cad.	33m–n.	420.	463, 628a, b, 629, 630, 635, 691a, b.	
13.	Anakosmokeras, S.B. 1924 ..	III, 3, Gul.	31b.	..	531, a, 597a, b, 759.	VI, 21.
14.	Anaplanulites, S.B. 1922 ..	III, 2, Per ?	29f.	329		
	Anaptychus [*see* Arnioceras].					
15.	Ancolioceras, S.B. 1899.. ..	I, 1, Hild.	19 c.	..	786, 787.	
16.	Androgynoceras, Hyatt 1867..	I, 2, Lip.	8 c–11e.	..	45a, b, 46, 47, 48.	I, *iii*.
17.	Anguidactylites, S.B. 1926 ..	III, 1, Dac.	13n–o.	763	64, 656	VI, 41.
17a.	Angulaticeras, Quenstedt 1885	IV, 3, Psil.	8a.	..	38	VI, 24.
18.	Anisoloboceras, Trueman 1918	I, 2, Lip.	12h.	37a-d.		II, *xv*; III, 13.
19.	Anolkoleiites, S.B. 1926 ..	I, 3, Son.	20r.	659		
20.	Apoderoceras, S.B. 1921 ..	III, 1, Der.	9s.	235.	530a, b, 541, 542a, b, 783a, b.	
	Aposphinctoceras, Neaverson, 1925	III, 2.	..	..	..	VI, 25.
21.	Aquistratites, S.B. 1924.. ..	III, 2, Per.	46a.	534a, b.		
22.	Arcidactylites, S.B. 1926 ..	III, 1, Dac.	14e.	657.	..	VI, 44.
23.	Argutarpites, S.B. 1923 ..	I, 1, Hild.	12j.	363.		
24.	Arietites, Waagen 1869.. ..	I, 1, Amm.	7 a–g.	221a, b.	35, 54, 67a, b, 120.	I, *vi*.
25.	Arisphinctes, S.B. 1924 ..	III, 2, Per.	34a.	511a, b, c	512	V, 33.
26.	Arnioceras, Agassiz-Hyatt 1867	I, 1, Amm.	5a–6e.	112	40, 424 ?	I, *vi*.
27.	Asphinctites, S.B. 1924 ..	III, 2.	23 g.	484.		
28.	Aspidoceras, Waagen, 1868 ..	III, 2, Asp.	33 g–o.	..	364a, b, 438a, b, 760a, b, 770a, b, 782a, b.	
	Asteroceras, Hyatt 1867 ..	I, 1, Amm.	..	..	..	I, *v*.
	Ataxioceras, Fontannes 1879	III, 2, Atax.	..	..	..	III, 31.
29.	Athlodactylites, S.B. 1927 ..	III, 1, Dac.	13d–e.	51a, b.	58	VI, 43.
30.	Aulacostephanus, Sutner & Pompeckj, 1896	III, 2.	38j.	..	567.	
31.	Baculatoceras, Mascke 1907 ..	III, 2, Park.	21g.	..	581.	III, 29
32.	Bajocisphinctes, S.B. 1927 ..	III, 2.	22a.	713	726.	
33.	Beaniceras, S.B. 1913 ..	III, 1. Der.	11b.	73.	123, 126, a, 129, 146, 147.	II, *iii*.

Ref. No.	Genus.	Toxonomic Position.	Hemeral Range.	Plate of Genotype.	Plate of other species.	Text reference (Vol. and page).
	Becheiceras, Trueman, 1918	I, 2, Lip.	..	..	..	III, 13.
34.	Behemoth, S.B. 1922	III, 2, Per ?	46b.	305a, b.	342a, b, c.	
35.	Benedictites, S.B. 1924.. ..	II, Cly.	28d.	523	..	V, 29.
36.	Bifericeras, S.B. 1913	I, 2. Lip.	8 e.	124	127, 128.	II, *iii*.
	Bigotella, Nicolesco 1917, *preocc.* = Bigotites.					
37.	Bigotites, Nicolesco 1918 ..	III, 2, Park.	22c.	..	622	III, 29.
38.	Bikosmokeras, S.B. 1926 ..	III, 3, Kos.	31m.	625	661a, b.	VI, 22.
39.	Binatisphinctes, S.B. 1921 ..	III, 2, Per ?	31h–k.	261a, b.	485, 615.	V, 25.
	Biplices, Sutner-Siemiradzki 1898	III, 2, Atax.	..	..	..	III, 31.
40.	Bourkelamberticeras, S.B. 1920	II, Cad.	31p.	154, a.	339.	III, 17, 14; V, 32.
	Bradfordia	II, Liss.				
41.	Bredyia, S.B. 1910	III, 1, Ham.	19b. ..	.. ..	577	II, *x*.
42.	Briareites, S.B. 1921	III, 2, Per ?	47e. ..	257a, b, c.		
43.	Bullatimorphites, S.B. 1921 ..	III, 2, Tul.	25g. ..	272a, b.	.. .. ..	III, 43, 47.
44.	Cadoceras, Fischer 1882 ..	II, 1, Cad.	29a–j. ..	.. ..	275, 406. ..	II, *xv*.
45.	Cadomites, Munier-Chalmas 1892	III, 2. ..	21f. ..	.. ..	432a, b, 543a, b.	
46.	Cadomoceras, Munier-Chalmas 1892	II, 2, Opp ?	20 r–21g	.. ..	189, 455, 456, 457, 458.	
47.	Cænisites, S.B. 1925	I, 1, Amm.	7a.. ..	572.		
48.	Caloceras, Hyatt 1870	IV, 3, Psil.	1f–2b.	.. ..	17, 18, 304.	I, *vii*.
49.	Cardioceras, Neumayr & Uhlig 1881	II, 1, Cad.	33a ..	.. ..	616a, b, 633, 690, 703.	III, 15.
50.	Catacephalites, S.B. 1922 ..	III, 2, Mac.	29f. ..	283	.. .. ..	IV, 54.
51.	Catacœloceras, S.B. 1923 ..	III, 1, Dac.	15b–d. ..	413 ..	61..	VI, 44.
52.	Catasigaloceras, S.B. 1923 ..	III, 3, Gow.	29f. ..	417 ..	434, 435 ..	VI, 21.
53.	Caumontisphinctes, S.B. 1920	III, 2, Park.	21g. ..	163 ..	169, 192, 241, 242. ..	III, 28.
54.	Cawtoniceras, S.B. 1923 ..	[II., Cad.]..	34e. ..	454		
55.	Cerericeras, S.B. 1922	III, 3, Gow.	28b. ..	286 ..	.. .. ..	VI, 21.
56.	Chalcedoniceras, S.B. 1922 ..	.. .. ..	33t. ..	295a, b, c.		
57.	Chamoussetia, R. Douville 1912	II, 1, Cad.	29a. ..	.. ..	462	II, *xii*, *xiv*.
	Cheltonia	I, 1, Amm.	.. ..	.. ..	.. .. ..	III, 6.
	Choffatia, Siemiradzki 1898 ..	III, 2, Park.	30 d. ..	.. ..	.. .. ..	III, 29.
58.	Chondroceras, Mascke 1907 ..	III, 2, Sph.	21c. ..	.. ..	357, 415, 431, 724	III, 22.
59.	Clydoniceras, Blake 1905 ..	II, Cly. ..	27b. ..	506a, b.	.. .. ..	V, 25.
60.	Cœloceras, Hyatt 1867 .. .. [*see also* Catacœloceras, Crassicœloceras, Nodicœloceras]	III, 1, Dac.	10 h. ..	.. ..	210	I, *iv*.
	Collina, Bonarelli 1893	III, 1, Dac.	.. ..	.. ..	.. .. ..	VI, 44.
	Coroniceras, Hyatt 1867 .. [*see also* Ammonites]	I, 1, Amm.	.. ..	.. ..	.. .. ..	I, *vi*, V, 34.
	Cosmoceras, *see* Kosmoceras.					
61.	Costigrammoceras, S.B. 1926	I, 1, Hild.	16b. ..	686		
	Cotteswoldia, S.B. 1902 ..	I, 1, Hild.	18a. ..	.. ..	.. .. ..	IV, 56.
62.	Crassicœloceras, S.B. 1926 ..	III, 1, Dac.	13q–14e.	728 ..	69, 119. ..	VI, 42.
63.	Crassiplanulites, S.B. 1921 ..	III, 2, Pro.	29j. ..	228a, b.	253	III, 41.
64.	Crendonina, S.B. 1925	III, 2. ..	46g. ..	607		
65.	Crendonites, S.B. 1923	III, 2. ..	46g ..	401		
66.	Crenilytoceras, S.B. 1926 ..	IV, 2., Lyt.	13k ..	665 ..	680	
67.	Crioconites, S.B. 1925	III, 2, Par.	29g. ..	538a, b.	.. .. ..	VI, 21.
68.	Crucilobiceras, S.B. 1920 ..	III, 1, Der.	9a. ..	178 ..	442	
69.	Curvidactylites, S.B. 1927 ..	III, 1, Dac.	14h. ..	708 ..	.. .. ..	VI, 43.
70.	Cymatosphinctes, S.B. 1923 ..	III, 2. ..	34a. ..	450a, b.	.. .. ..	VI, 8.
	Cypholioceras, S.B. 1899 ..	I, 1, Hild.	.. ..	.. ..	.. .. ..	IV, 55.
71.	Dactylioceras, Hyatt, 1867 .. [*see also* Anguidactylites, Athlodactylites, Kryptodactylites]	III, 1, Dac.	13j–q. ..	.. ..	62, 107, 208, 700	I, *v*; VI, 43.
72.	Dactylogammites, S.B. 1925 ..	III, 1, Pol.	17e. ..	573		

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73.	Defossiceras, S.B. 1913	I, 3. Amal.	11b.	76		II, *vi*.
	Deltoidoceras, S.B. 1902	I, 1, Hild.				IV, 56.
74.	Deltostrigites, S.B. 1924	II, 2, Strig.	20 c.	467		
75.	Denckmannia, S.B. 1898	I, 1, Hild.	15c.		14	II, *ix*.
76.	Deroceras, Hyatt 1867	III, 1, Der.	9d–f.		44, 64, a, 65, 71a, b, 72a, b, c, 82, 83, 84, 94, 95, 102a,b, 103, 104, 105.	I, *iv*.
77.	Dichotomoceras, S.B. 1919 [*See also* Alligaticeras]	III, 2, Per.	36b.	139a, b, c, d, e.	747a, b, c, d.	III, 27; VII, 6.
78.	Dichotomosphinctes, S.B. 1926	III, 2.	34b–d.	650	184, 715.	
79.	Dimorphinites, S.B. 1923	III,2, Morph.	22c.	377	510	
80.	Diplesioceras, S.B. 1920	II, 2, Opp.	22a.	177		III, 25; V, 7.
81.	Diplosellites, S.B. 1925	I, 1, Amm.	4a.	571		
82.	Docidoceras, S.B. 1919	III, 2, Sph.	20 h.	133a, b.	264, 276, 314	III, 22.
83.	Dolikephalites, S.B. 1922	III, 2, Mac.	28d.	372		IV, 54.
84.	Dumortieria, Haug 1885	III, 1, Pol.	17c.		668a, b.	
85.	Dundryites, S.B. 1926	I, 3, Sonn.	20 n.	687	751	VII, 12.
86.	Durotrigensia, S.B. 1928	III, 2, Park.	22c–e.	767a, b.	768, 781a,b,c.	
87.	Eboraciceras, S.B. 1918	II, 1, Cad.	31p–32e.	118a.	171, 172, 405	II, *xiv*; III, 14.
88.	Ebrayiceras, S.B. 1920	III, 2, Morph.	23a.	173	174, 321, 758, 769	III, 22.
89.	Echioceras, Bayle, 1878	I, 1, Ech.	8i–9h.		19, 28 & 96, 49, 425, 552, 553, 554	II, *ix*.
	Eichwaldiceras, S.B. 1920	II, 1, Cad.				III, 20, 21.
90.	Eleganticeras, S.B. 1913	I, 1, Hild.	13h.	110		II, *viii*.
91.	Elegantuliceras, S.B. 1913	I, 1, Hild.	13g.	93	106	II, *viii*.
92.	Emileia, S.B. 1898	III, 2, Sph.	20 l–r.	710a, b, c, d.	164, 414, 711, 723a,b, 732a, b, c, 733, 744a,b.	II, *xi*; III, 22; VI. 47.
93.	Emileites, S.B. 1927	III, 2, Sph.	20 n.	702		VI, 46.
94.	Epalxites, Mascke 1907	III, 2, Step.	21c.		151, 159	III, 21.
95.	Epideroceras, Spath 1923	III, 1, Der.	9r.		426, 441.	
	Episphinctoceras, Neaverson, 1925	III, 2, Per ?				VI, 25.
96.	Erycites, Gemmellaro 1886	III, 1, Ham.	19e.		246, 315.	
	Erymnoceras, Hyatt 1900	III, 2, Pach.				III, 21, 43.
97.	Esericeras, S.B. 1920	I, 1, Hild..	16c.	182		
98.	Euagassiceras, Spath 1924	I, 1, Amm.	5e.		6, 75, 187	V, 33; [I, 2.]
99.	Euaptetoceras, S.B. 1922	III, 1, Ham.	20 b.	299	396, 396[a].	
100.	Eudmetoceras, S.B. 1920	III, 1, Ham.	20 b.	179, a.	180 a, b, 397.	
101.	Euechioceras, Trueman and Williams 1925	I, 1, Ech.	9q.	482*		
	Euhoploceras, S.B. 1913	I, 1, Sonn.				II, *iv*.
102.	Fastigiceras, S.B. 1918	I, 1, Amm.	8h.	144		III, 14.
103.	Fimbrilytoceras, S.B. 1918	IV, 2, Lyt.	10 e.	130 a,b,c.		II, *xiii*.
104.	Fissilobiceras, S.B. 1919	I, 3, Sonn.	20 k.	181a, b.	387	II, *xv*.
105.	Flexoxyites, S.B. 1924	II, 2, Opp ?	21f.	525a, b.		
106.	Franziceras, S.B. 1923	IV, 3, Psil.	1f.	423.		
107.	Frechiella, Prinz 1904	I, 1, Cym.	14e.	23, a.		
108.	Frogdenites, S.B. 1921	III, 2, Sph.	20 s.	215	430.	
109.	Gagaticeras, S.B. 1913	I, 1, Ech.	8c.	78	122	II, *v*.
110.	Galbanites, S.B. 1922	III, 2.	47a–c.	355a, b.	439, 451, 621.	
111.	Galecardioceras, S.B. 1926	II, 1, Cad.	33p.	647.		
112.	Galilæanus, S.B. 1922	III, 3, Gow.	29j.	293		VI, 21.
113.	Galilæiceras, S.B. 1922	III, 3, Gow.	29h–j.	290	291	VI, 21.
114.	Galilæites, S.B. 1922	III, 3, Gow.	29i.	294	309, 614.	VI, 21.
115.	Garantiana, Hyatt 1900	III, 2, Park.	22a.	358		III, 29.

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116.	Gelasinites, S.B. 1925	II, Opp. ..	20 l. ..	593a, b.		
	Geyeria, S.B. 1899, *preocc.* = Geyerina	..	.. ..	.. ..	.. .. ..	II, *iv.*
	Geyerina, S.B. 1913	I, 1, Hild.	.. ..	.. ..	.. ..	II, *iv.*
117.	Gibbistephanus, S.B. 1928 ..	III, 2, Step.	21e. ..	780 a, b.		
118.	Gigantites, S.B. 1921	III, 2. ..	47c. ..	256a, b.	452a, b, 592a, b.	
119.	Glaucolithites, S.B. 1922 ..	III, 2. ..	46c. ..	306a, b.		
120.	Gleviceras, S.B. 1918	I, 1, Amm.	8j. ..	526 ..	.. .. ..	III, 14.
121.	Glevumites, S.B. 1924	I, 1, Amm.	8j. ..	527 ..		
122.	Glottoptychinites, S.B. 1923	III, 2. ..	47g. ..	403 ..	717a, b.	
123.	Glyphosphinctes, S.B. 1925 ..	III, 2. ..	22b. ..	544 ..	545a, b.	
124.	Glyptarpites, S.B. 1927.. ..	I, 1, Hild.	13m. ..	740 ..	.. .. ..	VII, 8.
125.	Goliathiceras, S.B. 1919 ..	II, 1, Cad.	33r. ..	132a, b, c.	156, 161, 349, 380	III, 17.
126.	Gonolkites, S.B. 1925	III, 2, Park.	23a–d. ..	546a, b.	547.	
127.	Gonoxyites, S.B. 1924	II, 2, Opp. ?	22e–23e.	481 ..	613.	
128.	Gowericeras, S.B. 1921.. ..	III, 3, Gow.	29a. ..	254 ..	287, 288, 404.	III, 54; VI, 21.
129.	Gracilisphinctes, S.B. 1920 ..	III, 2. ..	24a. ..	193.		
130.	Grammoceras, Hyatt 1867 ..	I, 1, Hild.	16b. ..	.. ..	774.	
131.	Graphoceras, S.B. 1898.. ..	I, 1, Hild.	20 a. ..	.. ..	388.	
	Grossouvria, Siemiradzki 1898	III, 2, Per.	.. ..	.. ..	.. .. ..	III, 28.
	Guibaliceras, S.B. 1918.. ..	I, 1, Amm.	.. ..	.. ..	.. .. ..	III, 14.
132.	Gulielmiceras, S.B. 1920 ..	III, 3, Gul.	29d–e. ..	194 ..	532	III, 54; VI, 21.
133.	Gulielmina, S.B. 1925	III, 3, Gul.	29e. ..	586 ..	.. .. ..	VI, 21.
134.	Gulielmites, S.B. 1923	III, 3, Gul.	31a–f. ..	418 ..	503, 521, 559, 598 ..	VI, 21.
135.	Gyromegalites, S.B. 1925 ..	III, 2. ..	46e. ..	620a, b, c, d.		
136.	Hammatoceras, Hyatt 1867..	III, 1, Ham.	17a. ..	.. ..	206a, b.	
137.	Hamulisphinctes, S.B. 1921..	III, 2. ..	31k. ..	262a, b, 263.		
138.	Harpoceras, Waagen 1869 ..	I, 1, Hild.	13j–14g.	764, a. ..	4a, b, 5, 682, 742, 749 ..	I, *i*; V, 12.
139.	Harpoceratidarum, Pompeckj 1906	II, 2, Cly.	27a. ..	560 ..	.. .. ..	V, 25.
140.	Harpoceratoides, S.B. 1909 ..	I, 1, Hild.	13m. ..	9	739	I, *ii*; VII, 7.
141.	Harpoxyites, S.B. 1924.. ..	II, 2, Opp. ?	22e–23a.	480 ..	499.	
142.	Haselburgites, S.B. 1920 ..	III, 2, Park.	22c–f. ..	203a, b.	493, 790 a, b.	III, 30.
143.	Haugia, S.B. 1888	I, 1, Hild.	15c. ..	.. ..	15..	II, *ix.*
144.	Hebetoxyites, S.B. 1924 ..	II, 2, Heb.	20 n–o.. .	475 ..	496a, b, 497, 498 ..	V, 8.
145.	Hildaites, S.B. 1921	I, 1, Hild.	13p. ..	217 ..	12, (138b = 267b).	
146.	Hildoceras, Hyatt 1867 ..	I, 1, Hild.	13q–14m.	.. ..	114a, b, 667, 685, 773, a.	
147.	Hildoceratoides, S.B. 1921 ..	I, 1, Hild.	14b. ..	218 ..	138a, c.	
148.	Hippostratites, S.B. 1924 ..	III, 2. ..	47f. ..	495a, b.	514	V, 32.
149.	Hlawiceras, S.B. 1921	III, 2, Park?	21g. ..	240.		
150.	Holcosphinctes, Neaverson 1925	III, 2. ..	42c. ..	569. ..	673	VI, 14.
151.	Homechioceras, S.B. 1925 ..	I, 1, Ech...	9g. ..	609.		
152.	Homœoplanulites, S.B. 1922	.. .. ..	28a. ..	328 ..	515.	
153.	Homoxynoticeras, S.B. 1925 ..	I, 1, Oxy.	10 c. ..	575.		
154.	Hoplikosmokeras, S.B. 1924..	III, 3, Kos.	31g–i. ..	488. ..	489, 490, 565.	VI, 22.
155.	Hortoniceras, S.B. 1922 ..	.. .. ..	33a. ..	296.		
156.	Hyalinites, S.B. 1924	.. .. ..	20 s. ..	519.		
157.	Hydrostratites, S.B. 1926 ..	.. .. ..	46a. ..	676.		
158.	Jamesonites, S.B. 1923.. ..	III, 1, Pol.	10 a. ..	407.		
159.	Kallilytoceras, S.B. 1921 ..	IV, 2, Lyt.	10 e. ..	204a, b.		
160.	Kallistephanus, S.B. 1921 ..	.. .. ..	20 s. ..	230.		
161.	Kamptocephalites, S.B. 1922	III, 2, Mac.	28c. ..	347 ..	.. .. ..	IV, 54.
162.	Katakosmokeras, S.B. 1925..	III, 3, Kos.	31i. ..	548 ..	.. .. ..	VI, 22.
163.	Kellawaysites, S.B. 1925 ..	.. .. ..	30 a ? ..	587.		
164.	Kepplerites, Neumayr & Uhlig 1892	III, 3, Gow.	28g. ..	289a, b.	.. .. ..	III, 54; VI, 21.
165.	Keratinites, S.B. 1925	.. .. ..	44c. ..	601 ..	602, a, 651, 652, a, 664.	

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166.	Kerberites, S.B. 1924	.. .. ..	46f.	520, a, b.	535, 570 a, b.	VI, 15.
167.	Keynshamites, S.B. 1926	I, 1, Amm.	4a.	653a, b.		
168.	Kiliania, S.B. 1899	I, 1, Hild.	19d.	.. ..	610.	
	Kinkeliniceras, S.B. 1921	III, 2, Pro.	.. ..	.. ..	.. .. ..	III, 33, 42.
169.	Kleistoxyites, S.B. 1922	II, 2, Heb.	20 b.	317	.. .. ..	V, 8.
170.	Kleistoxynoticeras, S.B. 1925	I, 1, Oxy.	10 c.	576.		
171.	Klematosphinctes, S.B. 1922	.. .. ..	33h.	333.		
172.	Koinodactylites, S.B. 1927	III, 1, Dac.	14h.	707	.. .. ..	VI, 43.
173.	Korythoceras, S.B. 1920	II, 1, Cad.	33l.	361	.. .. ..	III, 17.
174.	Kosmoceras, Waagen 1869	III, 3, Kos.	31n.	504	.. .. ..	III, 54; VI, 22.
175.	Kranaosphinctes, S.B. 1921	.. .. ..	33q.	243a, b.	449.	
176.	Kreterostephanus, S.B. 1927	.. .. ..	21c.	755.		
177.	Kryptodactylites, S.B. 1926	III, 1, Dac.	13f.	31, a.	.. .. ..	VI, 41.
178.	Kuklokosmokeras, S.B. 1926	III, 3, Kos.	31 o.	626a, b.	.. .. ..	VI, 22.
179.	Kumatostephanus, S.B. 1922	.. .. ..	20 r.	345a, b.	712a, b.	
180.	Labyrinthoceras, S.B. 1919	III, 2, Sph.	20 r.	134a, b, c, d.	135, 214, 278, 279	III, 22.
	Lamberticeras, S.B. 1920, preocc. = Bourkelamberticeras.					
181.	Leptechioceras, S.B. 1923	I, 1, Ech.	9n–o.	443	696, [482.]	
	Leptodactylites, S.B. 1926	III, 1, Dac.	.. ..	.. ..	.. .. ..	VI, 42.
182.	Leptosphinctes, S.B. 1920	III, 2, Park.	21f.	160	161, 201, 202.	III, 29.
183.	Leptostrigites, S.B. 1924	.. ....	20 r.	477a, b.		
184.	Leucopetrites, S.B. 1922	.. .. ..	46d.	307a, b, c.	677.	
185.	Liosphinctes, S.B. 1925	.. .. ..	34b.	566.		
186.	Liparoceras, Hyatt 1867	I, 2, Lip.	11a.	.. ..	108a,b,c.	I, *iii.*
187.	Lissoceras, Bayle 1878	II, 2, Liss.	20 n.	.. ..	400	V, 7, 8.
188.	Lobodactylites, S.B. 1926	III, 1, Dac.	14g.	730	.. .. ..	VI, 42.
189.	Lobokosmokeras, S.B. 1923	III, 3, Kos.	31l.	436	437	VI, 22.
190.	Lobolytoceras, S.B. 1923	IV, 2.	14h.	440, a.		
191.	Loboplanulites, S.B. 1925	.. .. ..	28a.	596.		
192.	Lobosphinctes, S.B. 1923	.. .. ..	22c.	447.		
193.	Longæviceras, S.B. 1918	II, 1, Cad.	31k–n.	121a.	148	II, *xiv.*
	Ludwigella, S.B. 1901	I, 1, Hild.	.. ..	.. ..	.. .. ..	IV, 56.
194.	Lunuloceras, Bonarelli 1893	II, 2, Opp.	31g–j.	.. ..	501, 502, a, 549, 646.	
195.	Lydistratites, S.B. 1922	.. .. ..	44g.	353a, b, c, d.	605a, b, 606a, b, 639a, b, c, d, 674a, b.	VI, 14, 34.
196.	Lytoceras, Suess 1865	IV, 2, Lyt.	12h.	.. ..	784a, b, c.	II, *xii.*
197.	Maceratites, S.B. 1928	.. .. ..	20 o.	766	.. .. ..	VII, 11.
198.	Maconiceras, S.B. 1926	.. ..	14k.	684	721, 722	VII, 13.
199.	Macrocephaliceras, S.B. 1922	III, 2, Mac.	28e.	313	.. .. ..	IV, 54.
200.	Macrocephalites, Sutner 1884	III, 2, Mac.	28f.	334a, b.	.. .. ..	III, 22; IV, 54.
201.	Macrogrammites, S.B. 1928	IV, 3, Psil.	2b.	761a, b.	718a, b.	
202.	Madarites, S.B. 1921	III, 2, Tul.	25d.	271a, b.	.. .. ..	III, 43, 45.
203.	Manselia, S.B. 1899	I, 1, Hild.	19d.	.. ..	409.	
204.	Martelliceras, Schindewolf 1925	III, 2, Per ?	34a.	.. ..	736a, b.	
205.	Masckeites, S.B. 1920	III, 2, Step.	21a.	152	.. .. ..	III, 21.
206.	Megarietites, Spath 1922	I, 1, Amm.	4e.	.. ..	518, a, b.	
	Mercaticeras, S.B. 1913	.. .. ..	.. ..	.. ..	.. .. ..	II, *vii.*
207.	Metechioceras, Trueman and Williams, 1925	I, 1, Ech.	9p.	.. ..	640.	
208.	Metoxynoticeras, Spath 1922	I, 1, Amm.	10 c.	.. ..	574.	
209.	Metrolytoceras, S.B. 1923	IV, 2, Lyt.	20 s.	429.		
210.	Microceras, Hyatt 1867	III, 1, Der ?	9b	.. ..	509, 529	V, 24.
211.	Microdactylites, S.B. 1926	III, 1, Dac.	13j.	.. ..	655	VI, 44.
212.	Microderoceras, Hyatt 1870	III, 1, Der.	6f.	.. ..	762a, b.	
213.	Micromphalites, S.B. 1923	.. .. ..	24b.	453	644.	
214.	Miticardioceras, S.B. 1923	II, 1, Cad.	33k.	375.		
215.	Mollistephanus, S.B. 1922	.. .. ..	20 n.	344.		
	Morphoceras, H. Douvillé 1881	III, 2, Morp.	.. ..	.. ..	.. .. ..	III, 22.
216.	Morrisiceras, S.B. 1920	III, 2, Tul.	25h.	167	274, 285	III, 22, 43, 47.

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217.	Morrisites, S.B. 1921	III, 2, Tul.	25f. ..	273 ..	378	III, 43, 48.
	Mucrodactylites, S.B. 1927 ..	III, 1, Dac.	.. ..	.. ..	.. .. ..	VI, 43.
218.	Multicœloceras, S.B. 1926 ..	III, 1, Dac.	14h. ..	785 ..	.. .. ..	VI, 42.
219.	Murleyiceras, S.B. 1921.. ..	.. ..	13k–l. ..	216 ..	245, 316, 772.	
220.	Nannina,[1] S.B. 1927	.. ..	20 u. ..	752 ..	753	VII, 13.
221.	Nannoceras, S.B. 1923	.. ..	20 c. ..	445.		
222.	Nannolytoceras, S.B. 1905 ..	IV, 2, Lyt.	21d. ..	323 ..	324a, b.	
223.	Neumayriceras, Rollier 1909..	II, 2, Opp ?	33g. ..	224 (G.-s.-t.)		
224.	Nodicœloceras, S.B. 1926 ..	III, 1, Dac.	13j–15a.	89, a. ..	59, 60, 719, 729a, b. ..	VI, 42.
225.	Nomodactylites, S.B. 1927 ..	III, 1, Dac.	14h. ..	731 ..	.. .. ..	VI, 43.
226.	Normannites, Munier-Chalmas 1892	III, 2, Step.	21c. ..	.. ..	734	III, 21.
	Obtusicostites, S.B. 1921 ..	III, 2, Pro.	.. ..	.. ..	.. .. ..	III, 42.
227.	Odontolkites, S.B. 1925 ..	.. .. ..	22a. ..	582.		
	Œcoptychius, Neumayr 1878..	III, 2, Park?	.. ..	.. ..	.. .. ..	III, 24.
228.	Œcoptychoceras, S.B. 1920 ..	III, 2, Morp.	22c. ..	176 ..	175	III, 24.
229.	Œcostephanus, S.B. 1921 ..	III, 2, Morp.	20 s. ..	265.		
	Œkotraustes, Waagen 1869 ..	II, 2, Opp.	.. ..	.. ..	.. .. ..	III, 25.
230.	Oistoceras, S.B. 1911	I, 2, Lip. ..	11f. ..	26a, b.	27..	I, *iv*.
231.	Oppelia, Waagen 1869	II, 2, Opp.	21c. ..	524* ..	.. .. ..	III, 25; V, 7.
232.	Oppelina, S.B. 1926	II, 2, Opp.	21f–h.	670 ..	671.	
233.	Orcholytoceras, S.B. 1926 ..	IV, 2, Lyt.	13t. ..	666 ..	681.	
234.	Orthildaites, S.B. 1923	I, 1, Hild.	14b. ..	444.		
235.	Orthodactylites, S.B. 1926 ..	III, 1, Dac.	13c. ..	654 ..	738	VI, 44.
236.	Otoites, Mascke 1907	III, 2, Sph.	20 o–s...	.. ..	81, 141, 158	III, 22.
237.	Otosphinctes, S.B. 1926 ..	.. .. ..	33s. ..	649.		
238.	Ovaticeras, S.B. 1918	I, 1, Hild.	14d. ..	111a. ..	111b, c. ..	II, *xi*.
239.	Oxycerites, Rollier 1909 ..	.. .. ..	26b–c. ..	.. ..	476, 505.	
240.	Oxynoticeras, Hyatt 1875 ..	I, 1, Amm.	8f-g. ..	143a. ..	7, 8, 36, 55, 56, 165a, b.	I, *ii*.
241.	Pachammatoceras, S.B. 1921	III, 1, Ham.	17a. ..	207.		
242.	Pachycardioceras, S.B. 1926	II, 1, Cad.	33p. ..	634.		
243.	Pachyceras, Bayle 1878 ..	III, 2, Pach.	32c. ..	.. ..	115.	
244.	Pallasiceras, Spath 1923 ..	III, 2, Per ?	44g. ..	590,a,b,c.	604	VI, 13, 34.
245.	Paltarpites, S.B. 1922	.. .. ..	13a. ..	362a, b.		
246.	Paltechioceras, S.B. 1924 ..	I, 1, Ech.	9p. ..	483.		
247.	Paltopleuroceras, S.B. 1898 ..	I, 3, Amal.	12k–m.	.. ..	22, 24, 52, 77, 199a, b,? c, 392, 408 ..	I, *viii*; II, *vi*, *vii*.
248.	Papilliceras, S.B. 1920	.. .. ..	20 r–t. ..	150 a, b.	205a, b, 557a,b, 611.	
249.	Paracardioceras, S.B. 1925 ..	II, 1, Cad.	33i. ..	588.		
250.	Paracoronites, S.B. 1927 ..	I, 1, Amm.	4f. ..	737a, b.		
251.	Parammatoceras, S.B. 1925..	III,1,Hamm.	19e. ..	555 ..	578, 641.	
252.	Parapatoceras, Spath 1924 ..	III, 3, Par.	29i. ..	537* ..	.. .. ..	V, 33; VI, 21.
253.	Paravirgatites, S.B. 1922 ..	III, 2, Per ?	44f. ..	308[a], b.	382, 603 ..	VI, 14, 34.
254.	Parechioceras, S.B. 1914 ..	I, 1, Ech.	8f. ..	.. ..	100 a, b, 101.	II, *ix*
255.	Parinodiceras, Trueman 1918. .	I, 2, Lip. ..	10 f. ..	.. ..	748a, b.	
256.	Parkinsonia, Bayle 1878 ..	III, 2, Park.	22a. ..	.. ..	337, a, 352, 612, 789.	III, 29.
257.	Parkinsonites, S.B. 1922 ..	III, 2, Zig	23f. ..	302*.		
258.	Parvidactylites, S.B. 1927 ..	III, 1, Dac.	14j. ..	779 ..	.. .. ..	VI, 43.
259.	Patemorphoceras, S.B. 1922..	.. .. ..	23a. ..	351 ..	376.	
260.	Pavloviceras, S.B. 1920.. ..	II, 1, Cad.	32d. ..	170 ..	195, 196, 197	III, 18.
261.	Pectinatites, S.B. 1922	III, 2, Per ?	44d. ..	354a, b, [c]. ..	381, 705.	
262.	Pectiniformites, S.B. 1925 ..	III, 2, Per ?	42a. ..	568.		
263.	Pelecoceras, Hyatt 1867 ..	I, 1, Hild.	15c. ..	.. ..	234a, b. ..	II, *x*.
264.	Pelekodites, S.B. 1923	.. .. ..	20 l. ..	399.		
265.	Peltoceras, Waagen 1871 ..	III, 2, Asp.	31m. ..	.. ..	99a, b, c.	

[1] This name differs by one letter from *Nanina*, Risso 1826 and *Nanina*, Gray 1834 (gastropods)

Ref. No.	Genus.	Toxonomic Position.	Hemeral Range.	Plate of Genotype.	Plate of other species.	Text reference (Vol. and page).
266.	Peltoceratoides, Spath 1924..	III, 2, Asp.	33d. ..	.. ..	563, 662.	
267.	Peltomorphites, S.B. 1925 ..	.. .. ..	33f. ..	564a, b.		
268.	Peridactylites, S.B. 1926 ..	III, 1, Dac.	14g. ..	778 ..	.. .. ..	VI, 42.
269.	Perisphinctes, Waagen 1869..	III, 2, Per.	31k–34a.	.. ..	113, 282, 663a,b, 714.	III, 26.
270.	Peronoceras, Hyatt 1867 .. [*See also* Spinicœloceras]	III, 1, Dac.	13f—14i.	683 ..	30, 701 ..	I, *v*; VI, 44
271.	Phanerosphinctes, S.B. 1921	.. .. ..	22c. ..	211	386.	
272.	Phaularpites, S.B. 1928.. ..	.. .. ..	13s. ..	775a, b.	.. .. ..	VII, 13.
273.	Phaulostephanus, S.B. 1927..	.. .. ..	21a. ..	754.		
274.	Phaulozigzag, S.B. 1926 ..	.. .. ..	23a. ..	643.		
275.	Phlycticeras, Hyatt 1900 ..	II, 2, Opp.	29b. ..	.. ..	98a, b.	
276.	Phlyseogrammoceras, S.B. 1901	I, 1, Hild.	16f. ..	.. ..	340, 394 ..	IV, 56.
277.	Phricodoceras, Hyatt 1900 ..	I, 2, Lip. ..	10 a. ..	.. ..	32, 33, 149a,b,c,d.	I, *viii*.
278.	Phylloceras, Suess 1865.. ..	1. IV, Phyll.	13j. ..	.. ..	34..	I, *vii*.
279.	Phylloxynotites, S.B. 1924	.. .. ..	10 c. ..	465.		
280.	Phymatoceras, Hyatt 1867 ..	I, 1, Hild.	15c. ..	.. ..	85, 244 ..	II, *x*.
281.	Pictonia, Bayle 1878	III, 2, Per ?	37a. ..	.. ..	533, 716 ..	III, 33.
282.	Plagiamites, S.B. 1925	.. .. ..	22a. ..	539 ..	583, 584.	
283.	Planammatoceras, S.B. 1922	III, 1, Ham.	19e. ..	356*.		
284.	Planifastigites, S.B. 1925 ..	.. .. ..	19h. ..	579.		
285.	Planisphinctes, S.B. 1922 ..	.. .. ..	23a. ..	327.		
	Planites, de Haan, 1825 ..	III, 2, Atax.	.. ..	.. ..	.. .. ..	II, *iv*.
286.	Planulites, Lamarck 1801 ..	.. .. ..	14h. ..	393 ..	.. .. ..	IV, 57.
287.	Plasmatites, S.B. 1925	.. .. ..	33e. ..	618.		
288.	Plasmatoceras, S.B. 1925 ..	.. .. ..	33e. ..	617 ..	.. .. ..	V, 66.
289.	Platyharpites, S.B. 1927 ..	.. .. ..	12j. ..	698.		
290.	Platypleuroceras, Hyatt1867..	III, 1, Pol.	10 h. ..	.. ..	3	I, *i*.
291.	Plectostrigites, S.B. 1924 ..	II, 2, Strig.	21g. ..	471* ..	.. .. ..	V, 7.
292.	Plesechioceras, Trueman and Williams, 1925	I, 1, Ech.	9m. ..	694.		
293.	Pleurechioceras, Trueman and Williams 1925	I, 1, Ech.	9m. ..	695.		
294.	Pleurocephalites, S.B. 1922 ..	.. .. ..	28e. ..	284a, b.	348, 558 ..	IV, 54.
295.	Pleurolytoceras, Hyatt 1900..	IV, 2. ..	16a. ..	.. ..	70.	
296.	Pleuromegalites, S.B. 1924 ..	.. .. ..	47a. ..	513, a.		
297.	Pleurophorites, S.B. 1921 ..	III, 2, Tul.	25b. ..	370 ..	371	III, 43, 46.
298.	Pleuroxyites, S.B. 1924.. ..	.. .. ..	22c–23e.	478 ..	479.	
	Pleydellia, S.B. 1899	I, 1, Hild.	.. ..	.. ..	.. .. ..	IV. 56.
299.	Poculosphinctes, S.B. 1920 ..	.. .. ..	32d. ..	185 ..	186	III, 31.
300.	Pœcilomorphus, S.B. 1889 ..	I, 3, Amal.	21c. ..	.. ..	746, 756a, b, 757	VII, 9.
301.	Polymegalites, S.B. 1925 ..	.. .. ..	46e. ..	591a, b.		
302.	Polymorphites, Sutner–Haug 1887	III, 1, Pol.	10 e. ..	.. ..	53 (3 spp.).	
303.	Polysphinctites, S.B. 1922 ..	.. .. ..	23a. ..	322a,b,c.	359.	
304.	Polystephanus, S.B. 1922 ..	.. .. ..	22c. ..	311.		
305.	Porpoceras, S.B. 1911 .. .. [See also *Simplidactylites*.]	III, 1, Dac.	14i. ..	29a, b	29b ?, 50, 57, 90, 91 ..	I, *v*; VI, 42.
306.	Præstrigites, S.B. 1924.. ..	II, 2, Strig.	19h. ..	466.		
307.	Prepapillites, S.B. 1927.. ..	.. .. ..	20 l. ..	709.		
308.	Primarietites, S.B. 1926 ..	I, 1, Amm.	4f. ..	678.		
	Prionoceras, S.B. 1920, *pre-occ.* *see* Prionodoceras.					
309.	Prionodoceras, S.B. 1920 ..	II, 1, Cad.	36 c–d.	155 ..	421, 422, 464, 704 ..	III, 17.
310.	Procerites, Siemiradzki 1898..	III, 2, Zig.	23a. ..	.. ..	153, 416 ..	II, *ix*; III, 30.
311.	Proplanulites, Teisseyre 1887	III, 2, Pro.	29a–k.	.. ..	213, 226, 227, 232, 251, 252, 281, 330, 331, 360, 379, 507, 645	III, 33.
312.	Prorsiceras, S.B. 1918	II, 1, Cad.	32h. ..	117a, b.	.. .. ..	II, *xiv*.
313.	Prorsisphinctes, S.B. 1921 ..	III, 2, Per ?	22a–b.	200 ..	326, 446, a, b.	

Ref. No.	Genus.	Toxonomic Position.	Hemeral Range.	Plate of Genotype.	Plate of other species.	Text reference (Vol. and page).
314.	Pseudobigotella, Lemoine 1918	III, 2, Park.	21g. ..	.. ..	191	III, 29.
315.	Pseudocadoceras, S.B. 1918..	II, 1, Cad.	31g–k.	121b. ..	727, 735 ..	II, *xiv.*
316.	Pseudogrammoceras, S.B. 1901	I, 1, Hild.	16e. ..	.. ..	79..	IV, 56.
317.	Pseudolioceras, S.B. 1888 ..	I, 1, Hild.	13j–16a.	.. ..	10, 11, 13, 41a, b, 42, 43, 188.	
318.	Psiloceras, Hyatt 1867.. ..	IV, 3, Psil.	1b–c. ..	.. ..	223, 390	V, 34.
319.	Putealiceras, S.B. 1922.. ..	.. .. ..	32d. ..	297.		
320.	Quenstedtoceras, Hyatt 1876	II, 1, Cad.	32d. ..	.. ..	118b.	II, *xi.*
	Radstockiceras, S.B. 1918 ..	I, 1, Amm.	.. ..	.. ..	.. .. ..	III, 14.
	Reineckeia, Bayle 1878.					
321.	Reineckeites, S.B. 1924.. ..	.. .. ..	30 e. ..	522 ..	.. .. ..	V, 33.
322.	Retenticeras, S.B. 1920.. ..	.. .. ..	8d. ..	166.		
	Reynesella, S.B. 1902	I, 1, Hild.	.. ..	.. ..	.. .. ..	IV, 56.
323.	Rhabdodites, S.B. 1923.. ..	.. ....	21g. ..	374.		
	Rhacoceras, Hyatt 1867, .. *See* Tragophylloceras	.. .. ..	.. ..	.. ..	.. .. ..	I, *vii.*
324.	Rhytostephanus, S.B. 1921..	.. .. ..	20 s. ..	250 a, b.		
325.	Ringsteadia, Salfeld 1913 ..	.. .. ..	35 a, b.	.. ..	225, 560 a, b, 589, 672 ..	III, 33.
326.	Rubrileiites, S.B. 1926	.. .. ..	20 q. ..	642.		
327.	Rugiferites, S.B. 1921	III, 2, Tul.	25c. ..	338,a. ..	.. .. ..	III, 43, 46.
328.	Rursiceras, S.B. 1919	.. .. ..	31k. ..	145.		
329.	Sagitticeras,[1] S.B. 1920.. ..	II, 1, Cad.	33l. ..	260 ..	280, 600, 627.	III, 19.
330.	Scamnoceras, Lange 1924 ..	.. .. ..	2g. ..	.. ..	551.	
331.	Scaphitodites, S.B. 1924 ..	.. .. ..	32a. ..	459.		
332.	Scarburgiceras, S.B. 1924 ..	.. .. ..	32b. ..	508 ..	.. .. ..	V, 32.
333.	Schlotheimia, Bayle 1878 .. [*See also* Angulaticeras, Macrogrammites.]	IV, 3, Psil.	2f. ..	.. ..	395, 608.	
334.	Scoticardioceras, S.B. 1925 ..	II, 1, Cad.	33h. ..	599.		
335.	Seguenziceras, Levi 1896 ..	I, 1, Hild.	12e. ..	.. ..	74.	
336.	Sherbornites, S.B. 1923.. ..	.. .. ..	20 l. ..	411 ..	427, 669.	
337.	Shirbuirnia, S.B. 1910	I, 1, Amal.	20 l. ..	.. ..	460, 517a, b.	
338.	Shotoverites, S.B. 1925.. ..	.. .. ..	44b–c.	562a, b.	384	VI, 9, 15.
	Siemiradzkia, Hyatt 1900 ..	III, 2, Atax.	.. ..	.. ..	.. .. ..	III, 26, 31.
339.	Sigaloceras, Hyatt 1900 ..	III, 3, Gow.	29j. ..	.. ..	255	III, 54; VI, 21.
340.	Simotoichites, S.B. 1923 ..	.. .. ..	46g. ..	402a, b.		
341.	Simplidactylites, S.B. 1927 ..	III, 1, Dac.	13d. ..	.. ..	209	VI, 43.
342.	Skirroceras, Mascke 1907 ..	III, 2, Step.	20 s. ..	248, ..	516 ..	III, 21.
343.	Skolekostephanus, S.B. 1921	.. .. ..	20 s. ..	249.		
344.	Sonninia, Bayle 1878	I, 1, Amal.	20 t. ..	.. ..	298, 412, a.	
345.	Sonninites, S.B. 1923	I, 1, Amal.	20 s–u...	428a, b.	461, 528, a, 631.	
346.	Spatulites, S.B. 1928	.. .. ..	20 o. ..	765 ..	.. .. ..	VII, 12.
347.	Sphæroceras, Bayle 1878 ..	III, 2, Sph.	21 f–g...	.. ..	258, 725 ..	III, 22.
348.	Sphæromorphites, S.B. 1921..	III, 2, Tul.	25a. ..	367 ..	.. .. ..	III, 43, 49.
349.	Spinicœloceras, S.B. 1926 ..	III, 1, Dac.	13s–14i.	777 ..	63..	VI, 42.
350.	Spinikosmokeras, S.B. 1924..	III, 3, Kos.	31e–g. ..	486a, b, c.	487	VI, 22.
351.	Spiroceras, Quenstedt 1857 ..	.. .. ..	22a. ..	.. ..	492, 540 ..	V, 33.
352.	Stegeostephanus, S.B. 1922..	.. .. ..	22c. ..	312* ..		
353.	Stegoxyites, S.B. 1924	II, 2, Liss.	21b. ..	474 ..	.. .. ..	V, 8.
	Stemmatoceras, Mascke 1907	III, 2, Step.	.. ..	.. ..	.. .. ..	III, 21.
354.	Stenechioceras, S.B. 1927 ..	I, 1, Ech.	9q. ..	697.		
355.	Stepheoceras, S.B. 1898 ..	III, 2, Step.	21a. ..	238 ..	229	II, *xi*; III, 21.
356.	Stiphromorphites, S.B. 1923..	.. .. ..	20 n. ..	398.		
357.	Stomphosphinctes, S.B. 1921	.. .. ..	22a. ..	247.		
358.	Strenoceras, Hyatt 1900 ..	III, 2, Park.	21g. ..	.. ..	239	III, 29.
359.	Strigites, S.B. 1924	II, 2, Strig.	20 o–22a.	469a, b.	470	V, 7.
360.	Strigoceras, Quenstedt 1886..	II, 2, Strig.	22c. ..	472 ..	585	V, 7.
	Subparkinsonia, Mascke 1907	III, 2, Park.	.. ..	.. ..	.. .. ..	III, 29.
361.	Suspensites, S.B. 1922	.. .. ..	26a. ..	346.		

[1]This name differs by one letter from *Sagittoceras*, Wheelton Hind 1918.

Ref. No.	Genus.	Taxonomic Position.	Hemeral Range.	Plate of Genotype.	Plate of other species.	Text reference (Vol. and page.)
362.	Sutherlandiceras, S.B. 1922	II, 1, Cad.	32f.	320 a, b.		
363.	Tardarpoceras, S.B. 1927	.. .. ..	13r.	741	.. .. ..	VII, 9.
364.	Teloceras, Mascke 1907	III, 2, Step.	21 c–e.	..	350 a, b, 660 a, b, 788a, b.	III, 21.
365.	Tenuidactylites, S.B. 1926	III, 1, Dac.	13f.	157, a.	.. .. ..	VI, 41.
366.	Thysanoceras, Hyatt 1867	IV, 2. Lyt.	15c.	..	391a, b, c.	
367.	Tiltoniceras, S.B. 1913	I, 1, Hild.	13e.	97	.. .. ..	II, *viii.*
368.	Titanites, S.B. 1921	III, 2, Per ?	47d.	231a, b.		
369.	Tmetokephalites, S.B. 1923	III, 2, Mac.	28f.	373	433	IV, 54.
370.	Toricelliceras, S.B. 1922	III, 3, Gow.	28g.	292	310, 318, 319.	VI, 21.
371.	Toricellites, S.B. 1922	III, 3, Gow.	29a.	336	.. .. ..	VI, 21.
372.	Toxamblyites, S.B. 1924	II, 2, Liss.	20 s.	473	.. .. ..	V, 8.
373.	Toxodactylites, S.B. 1926	III, 1, Dac.	13r.	776	.. .. ..	VI, 42.
374.	Toxosphinctes, S.B. 1223	.. .. ..	34c.	448.		
375.	Trachylytoceras, S.B. 1913	IV, 2. Lyt.	13j.	86	87	II, *vii.*
376.	Tragophylloceras, Hyatt 1900	IV, 1, Phyll.	10 j–11c.	..	16, 219, 220, 233, 679.	I, *viii.*
377.	Trilobiticeras, S.B. 1919	III, 2, Sph.	20 g.	140	277a, b.	III, 22.
378.	Trinisphinctes, S.B. 1922	.. .. ..	31k.	332.		
379.	Triozites, S.B. 1924	.. .. ..	37c.	494.		
380.	Trophonites, S.B. 1922	.. .. ..	47b.	325a, b.	343a, b, 385a, b.	
381.	Tubellites, S.B. 1924	.. .. ..	9j.	491.		
382.	Tulites, S.B. 1921	III, 2, Tul.	25i.	269	268a, b, c, 270.	III, 43, 44.
383.	Tulophorites, S.B. 1921	III, 2, Tul.	25e.	369a, b.	368	III, 43,45.
384.	Tutchericeras, S.B. 1918	I, 1, Amm.	8h.	137a, b.	.. .. ..	III, 14.
385.	Uptonia, S.B. 1898	III, 1, Pol.	10 g–h.	..	2, 21, 92	I, *viii.*
386.	Varistrigites, S.B. 1924	II, 2, Strig.	20 k.	468.		
387.	Vaumegalites, S.B. 1924	.. .. ..	46h.	536.		
388.	Vermidactylites, S.B. 1926	III, 1, Dac.	14f.	68, a.	.. .. ..	VI, 42.
389.	Vermisphinctes, S.B. 1920	III, 2, Park.	22b.	162	190, 366	III, 29.
390.	Vertebriceras, S.B. 1920	II, 1, Cad.	33q.	198	619, 636, 648.	III, 16.
391.	Vertumniceras, S.B. 1918	II, 1, Cad.	32d.	116a.	116b, c.	II, *xiv*; III, 21.
	Vicinodiceras, Trueman 1919	I, 2, Lip...	.. ..	.. ..	.. .. ..	III, 13.
392.	Victoriceras, S.B. 1918	I, 1, Amm.	8h.	136a, b, c.	.. .. ..	III, 14.
393.	Virgatites, Pavlow 1892	III, 2, Per ?	45a.	.. ..	675, 693.	
	Wagnericeras, S.B. 1921	III, 2, Pro.	.. ..	.. ..	.. .. ..	III, 33.
	Walkeria, S.B. 1902, pre-occ. = Walkericeras.					
	Walkericeras, S.B. 1913	I, 1, Hild.	.. ..	.. ..	.. .. ..	II, *iii.*
394.	Weissermeliceras, S.B. 1920	II, 1, Cad.	31k.	183	.. .. ..	III, 20.
395.	Wheatleyites, S.B. 1922	II, 2, Per ?	44b.	365	383a, b, 561, a, b...	IV, 28; VI, 9.
396.	Whitbyiceras, S.B. 1913	.. .. ..	15b.	80	.. .. ..	II, *v.*
397.	Witchellia, S.B. 1888	I, 1, Amal.	20 o.	745	168, 410, 556, 580 a, b, [c], 594, 688, 689, 745.	
398.	Xeinodactylites, S.B. 1926	III, 1, Dac.	13b.	699	.. .. ..	VI, 41.
399.	Xeinophylloceras, S.B. 1921	IV, 1. Phyll.	17f.	266a, b.		
400.	Xipheroceras, S.B. 1911	III, 1, Der.	7e.	632	39a, b, c, 706a, b, 771a, b.	I, *iv.*
401.	Zigzagiceras, S.B. 1902	III, 2, Zig.	23a–b.	..	259a, b, 300 a, b, 335, 595a, b, 623, 624.	II, *ix*; III, 31.
402.	Zigzagites, S.B. 1922	III, 2, Zig.	23c.	301.		
403.	Zugella, S.B. 1927	.. .. ..	20 k.	750	.. .. ..	VII, 12.
404.	Zugodactylites, S.B. 1926	III, 1, Dac.	14j.	658	720, 743	VI, 44.
405.	Zugokosmokeras, S.B. 1923	III, 3, Kos.	31h.	389	419	VI, 22.
406.	Zugophorites, S.B. 1922	.. .. ..	20 l.	341.		

IV. ALPHABETICAL LIST OF SPECIES.

	Genus.	Hemera.	Plate.
abbas	1	19f	236
acantherum ..	248	20q	205
acanthus	224	13q	729
actinophora ..	396	20n	689
aculeatum	76	9e	72
acuticarinatum ..	26	5a	40
acuticosta	330	2g	551
acuticostatum ..	29	33k	438
acutistriatum ..	349	31g	486
adicrus	336	20k	669
admirandus.. ..	142	22c	203
ægrotus	8	19g	237
æquabile	318	1b	390
akantheen	29	33 o	770
akanthophorus ..	11	37i	550
albidus..	85	20m	687
albisaxeum ..	361	22f	320
alligatum	3	32d	212
alsaticus	344	20t	528
alternatus	140	13m	9
ambiguum	376	11c	16
amblys..	9	20r	303
ammonoides ..	125	33p	132
amphilaphes ..	180	20q	279
amplectens.. ..	100	20b	180
anacanthum ..	48	33a	703
andræi..	305	14i	57
anglica	325	35a	225
anguiforme ..	76	9d	64
anguiformis.. ..	17	13n	763
angulinus	300	21c	757
angustilobatum ..	353	9q	697
annulatum	71	13q	700
annuliferum ..	305	14i	63
antecedens	78	34b	650
antiquata	201	2b	718
aplanatum	207	9p	640
apleurum	357	21g	239
aplous	52	21g	241
apolipon	185	34b	566
appropinquams ..	233	13t	681
approximatus ..	370	29a	336
aptum	219	13l	316
aquator	22	46a	534
arcifer	371	20r	473
arciruga	311	29k	331
arctum..	240	8f	36
arcus	23	14e	657
arenatus	307	20k	709
argutus	24	12j	363
ariprepes	26	34a	511
aspidioides	239	26c	505
athleticum	29	13d	51
attenuatus	211	13k	655
audax	122	47g	717
aulacophorus ..	261	44d	381
aureolum	89	9q	28 ; 96
aureum	290	10h	3
auricula	137	31k	263
auricularis	299	32d	186
aurifer	197	20n	766
austera	203	19d	409
baculatum	31	21g	581
bajociensis	32	22a	713
banksii..	363	21e	660
basileus	311	29c	252
bathyomphalum	260	32d	196
bathytmetus ..	368	28f	373
beanii	143	15c	15
belcheri	48	2b	17
biferum	36	8e	124
biforme	82	20h	276
biformis	195	44g	605
bifrons	146	14h	114
bifurcus	52	21g	192
bifurcus	157	46a	676
binatus	39	31k	261
binodulatum ..	399	7e	706
biplex	269	34a	282
birdi	247	12k	24
bisulcatum	247	12k	392
bivius	262	42a	568
boreale	315	31k	121B
boulbiense	317	14j	11
braikenridgii ..	236	20r	81
braunianus	403	14j	658
brightii	194	31g	549
brocchii	92	20 o	710
buckii	240	8g	165
bucklandi	10	4c	131
buckmanii	247	12k	199
bullatimorphus ..	43	25g	272
bulligera	92	20q	732
cadiforme	87	32e	405
cadus	382	25i	268
cæmentarius ..	184	46d	677
cæneus	47	7a	572
calloviense	252	29i	537
campylus	282	22a	584
capax	125	33r	349
capillare	15	19c	786
capistratus	311	29a	213
cappucinum ..	136	17a	206
carinatum	46	20 s	456
cariniferum ..	329	33n	627
catamorpha ..	92	20 l	414
cawtonense.. ..	54	34e	454
celans	345	20 s	461
centaurus	33	11b	146
cereale..	55	28b	286
cereum	89	8i	49
chalcedonicum ..	56	33t	295
childanum	128	29a	404
clausiprocerum ..	401	23b	595
clausum	102	8h	144
cleistus	182	21f	161
clevelandicus ..	6	12d	109
clypeus	144	20 n	496
columellatum ..	170	10 c	576
comma..	216	25h	285
communis	172	14h	707
compactile	317	16a	41
compressus ..	386	20 k	468
comptoni	39	31h	485
concinnum	138	14e	742
concinnum	315	31g	735
confectum	51	15d	413
conlaxatum ..	134	31a	418
connata	403	20 k	750
consimilis	268	14g	778

	Genus.	Hemera.	Plate.
contractus	236	20 s	158
contrahens	92	20 p	744
convergens	126	23a	546
convolutum ..	48	2b	18
cordatiforme ..	12	33 o	420
cornucopia	366	15c	391
cornutifer	165	44c	602
cornutum	277	10 a	32
coronarius	182	21f	202
corrugata	344	20 t	412
costatum	46	21g	189
costatum	367	13e	97
costatum	33	11b	123
costatus	282	22a	539
costellatum ..	49	33a	616
costellatum ..	46	20 r	457
costicardia	49	33a	633
costigera	281	37a	716
costigerum	61	16b	686
costulatosus ..	271	22c	386
costulosum	390	33s	636
cowleyensis ..	269	34a	663
crassescens	224	13q	719
crassicosta	63	29j	228
crassicostatum ..	89	9l	553
crassiruga	63	29j	253
crassiusculosum ..	71	13j	62
crassiusculum ..	341	13d	209
crassizigzag	401	23a	335
crassoides	224	14a	89
crassornata	41	19b	577
crassulosum ..	29	13e	58
crassulum	71	13q	208
crassum	62 ?	14e	119
crassum	33	11b	147
crater	92	20 l	164
crenatum	66	13k	665
crenulatus	287	33e	618
cretarius	110	47c	621
crioconus	67	29g	538
crispatum	52	29f	434
crosbeyi	224	15a	60
crucifer	112	29j	293
crucilobatum ..	68	9a	178
cunctator	195	44g	606
curticornutus ..	114	29i	614
curtilobus	114	29i	294
curvatus	32	22a	726
curvicerclus ..	52	29f	435
curvicosta	69	14h	708
cylindroides ..	82	20 h	133
cymatophorus ..	70	34a	450
cyphus	282	22a	583

	Genus.	Hemera.	Plate.
delicatus	236	20 o	141
delphinus	58	21c	431
deltotus	74	20 c	467
dennyi	240	8f	7
denotatus	24	7g	67
densicostata ..	281	37a	533
densinodulus ..	68	9a	442
densus	205	21a	152
depilata	168	19d	610
depressus	6	12e	25
desideratus ..	253	44f	382
dichotomum ..	77	36b	139
difficilis	14	29f	329
digitatus	72	17e	573
dimorphus	79	22c	377
diplesium	80	22a	177
directus	235	13c	654
discus	59	27b	506
dispansum	276	16f	340
dissimile	87	32d	118A
distans	4	43a	638
dolichœcus	229	20 s	265
dolium	251	19e	641
dolius	83	28d	372
dorsale	390	33s	198
dorsetensis	86	22c	767
duplex	321	30 e	522
durus	50	29f	283
effulgens	13	31b	597
eimensis	86	22e	768
elaboratum	247	12k	22
electum	276	16f	394
[elegans	90	13h	110]
elegantulum ..	91	13g	93
elicitum	246	9p	483
ellipticum	46	20 s	455
erratum	317	13j	188
erugatum	318	1c	223
euaptetum	99	20 b	299
eudmetum	100	20 b	179
euryodes	310	23a	153
evoluta	220	20 u	752
exaratum	138	13j	5
excavatum	12	33p	463
excentricum ..	309	36c	464
excentricus ..	311	29i	379
exhæredatum ..	95	9r	441
exiguus	272	13s	775
exortum	89	8i	19
expositum	12	33 o	628
extensum	180	20 r	214
damoni	391	32d	116B
daubenyi	304	22c	311
davidsoni	182	21f	201
decurrens	175	33q	449
deficiens	38	31m	661
defluxum	95	9r	426
defossum	73	11b	76
defrancii	79	22c	510
degradatum ..	162	31i	548
delicatulum ..	12	33p	635
delicatum	12	33p	630
delicatum	17	13 o	656
delicatus	134	31a	521
fabale	280	15c	244
fabricatum	278	13j	34
fabricatus	311	29a	251
falcata	397	20 o	688
falciferoides ..	138	13q	749
falciferum	138	14g	764
falcula	138	13s	682
fallax	141	23a	499
fasciatum	375	13j	87
fasciger	110	47a	451
fastigata	337	20 l	460
fastigatum	329	33n	280
felix	345	20 s	428

	Genus.	Hemera.	Plate.
ferox	20	9s	541
ferox	28	33q	782
ferrugineum	7	12f	142
fibulatum	270	14i	683
fibuliferum	154	31i	489
figulinum	230	11f	26
fimbriatum	103	10d	130
finitimum	254	8f	100
fissilobatum	104	20 k	181
flavum	240	8f	55
flexus	105	21f	525
fluctuosus	39	31h	615
folliformis	294	28e	348
fonticulum	224	13j	59
formosum	66	13k	680
formosus	94	21c	151
fornicatus	217	25f	378
forte	219	13l	245
forticosta	296	47a	513
foveatum	62	14e	69
fracidus	311	29k	507
frequens	325	35b	589
fullonicus	257	23f	302
funiculatum	109	8c	122
furcicrenatum	196	12h	784
gagateum	109	8c	78
galbanus	110	47c	355
galeatum	125	33r	156
galeiferum	111	33p	647
galilæi	113	29h	290
garantiana	115	22a	358
gelasinus	116	20 l	593
geminatum	38	31m	625
gervillei	58	21c	724
gibberulum	180	20 r	278
gibbosus	195	44g	639
gibbosus	117	21e	780
giganteus	118	47c	256
gigas	212	6f	762
glauca	397	20 o	594
glaucolithus	119	46c	306
glevense	120	8j	526
globus	347	21f	725
glottodes	122	47g	403
glyphus	123	22b	544
glyptum	194	31j	646
glyptus	124	13m	740
goniophorus	127	22e	481
gracile	360	22c	585
gracile	71	13j	107
gracilis	129	24a	193
grammicus	201	2b	761
grandiforme	58	21c	357
gregarium	312	32h	117
grossouvrei	228	22c	175
gubernator	295	16a	70
gulielmi	132	29e	194
gyrale	219	13k	772
hamiltoni	20	9s	530
hamulatus	137	31k	262
harpophorus	141	22e	480
hartmanni ?	26	6e	424
hastatum	76	9e	102
hawskerense	247	12m	408

	Genus.	Hemera.	Plate.
hebes	144	20 m	475
helianthoides	398	13b	699
heptangulare	186	11a	108
heterogenes.	16	11c	46
hildense	146	14h	667
hippocephaliticus	148	47f	495
hochstetteri	35	28d	523
hollandi	139	27a	500
holtonensis	78	34b	715
homalogaster	45	21f	543
homœomorphus	152	28a	328
homœum	153	10 c	575
hoplistes	154	31i	488
hoplophorus	267	33f	564
humphriesianum	355	21a	238
huntoni	376	10 j	219
hyalinus	156	20 s	519
hyperbolicum	275	29b	98
ignota	385	10 g	21
imitator	402	23c	301
impavidum	76	9e	104
impendens	24	7g	120
imperator	380	47b	343
inæquum	97	16c	182
incongruens	144	20 n	497
incrassatum	60	10 h	210
indigestus	114	29i	309
infernense	99	20 b	396
infrequens	253	44f	603
ingens	78	34d	184
integricostatum	16	8c	47
interlineatum	159	10 d	204
intermissum	40	31p	339
interpositum	405	31h	419
interrupta	256	22a	337
intersertus	192	22c	447
intertextus	266	33d	662
intricatum	180	20 r	135
intronodulatum	132	29d	532
iridescens	89	9l	554
jactatum	88	23a	769
jason	134	31a	503
jupiter	302	10 d	53
kalus	160	20 s	230
kamptus	161	28c	347
keelingi	167	4a	653
keppleri	164	28g	289
keratophorus	165	44c	601
kerberus	166	46f	520
kimmeridiensis	150	42c	673
knapheuticus	298	23e	479
koenigi	311	29a	281
korustes	216	25h	274
korys	173	33l	361
kranaus	175	33q	243
kreter	176	21c	755
kuklikum	178	31 o	626
kumaterus	179	20 r	345
laboratus	311	29a	645
labrum	364	21c	350

	Genus.	Hemera.	Plate.
lævigatus	311	29c	232
læviuscula	397	20 o	745
lamberti	40	31p	154
lamellosum ..	277	10 a	149
laminatum	315	31g	727
languidus	183	20 r	477
lapideus	34	46b	342
lassum..	198	14k	722
latansatus	94	21c	159
latescens	316	16e	79
lectotypa	231	21c	524
lectum..	317	15c	43
lenticulare	7	12g	20
lenticularis	57	29a	462
leptogyrale	342	20 s	516
leptolobatus ..	65	46g	401
leptus	182	21f	160
leucus	184	46d	307
levisoni	145	13p	12
liberalis	294	28e	558
limatum	240	8f	56
limoniticus	123	22b	545
limosus	127	23e	613
lobatum	188	14g	730
lobatus	311	29a	330
lobulatum	20	9s	235
longævum	193	31k	121a
longidens	227	22a	582
longilobatum ..	394	31k	183
longilobatus ..	191	28a	596
lonsdalii	194	31g	502
lophopleurus ..	294	28e	284
luridum	33	11b	73
lydianites	244	44g	604
lyditicus	195	44g	353
lythense	317	14j ?	13
macdonnellii ..	181	9 o	443
macilentus	144	20 n	498
macrescens	259	23a	376
macrocephalum ..	199	28e	313
macrum	342	20 s	248
maculatum ..	16	11e	45
madarus	202	25d	271
mæandrus	15	19c	787
majesticus	311	29a	226
malenotatus ..	93	20 n	702
maximus	25	34a	512
megasthenes ..	34	46b	305
meridionalis ..	206	4e	518
mesacanthum ..	248	20 s	557
meseres	313	22b	446
metorchion ..	233	13t	666
metorchum.. ..	128	29a	254
metretum	209	20 s	429
micans	339	29j	255
micracanthum ..	248	20 t	611
micromphalus ..	213	24b	453
microtrypa	125	33r	380
mikrolobus	110	47b	439
miles	76	9f	44
mite	214	33k	375
mitis	235	13c	738
mixtus	302	10 d	53
moderatum ..	329	33n	600
mollis	215	20 n	344
morrisi	217	25f	273

	Genus.	Hemera.	Plate.
mulgravium ..	138	13q	4
See also portrait of J. Buckman, æt. c. 30.			
multicostatus ..	163	30 a	587
multifida	92	20 r	733
multinodus ..	364	21e	788
multum	218	14h	785
murleyi	219	13l	216
mutatum	76	9e	105
mutatus	404	14j	720
nannomorphum..	221	20 c	445
nanum	376	11b	679
naso	165	44c	652
nasutus	165	44c	664
nativum	76	9e	84
nautiliforme ..	18	12h	37
navicula	331	32a	459
neglectum	254	8f	101
nitescens	335	12e	74
nitidum	375	13j	86
nobile	101	9q	482
nodatipinguis ..	356	20 n	398
nodatus	53	21g	242
nodulatum	2	5b	222
noduliferus	250	4f	737
notatum	89	9l	552
nudicosta	36	8e	128
numismalis ..	376	10 j	233
obductus	134	31f	559
obliquatum ..	263	15c	234
obsoleta	385	10 f	92
obtectum	251	19e	555
ocellatum	88	23a	173
oculatum	223	33g	224
ogivale..	309	36c	421
okusensis	166	46f	570
omissum	230	11f	27
omphalicus ..	313	22a	326
omphaloides ..	260	32d	195
oppeli	208	10 c	574
opulentus	395	44b	383
orbignyi	226	21c	734
ordinarium	87	32e	171
orientale	204	34a	736
orthus	234	14b	444
otiophora	314	21g	191
ouatius	237	33s	649
ovatulum	91	13g	106
ovatum	238	14d	111A
owenense	76	9e	65
oxus	213	24b	644
oxynotum	240	8f	143
pachu	241	17a	207
pachymeres ..	118	47c	592
pachypleura ..	256	22a	612
pallasianus	393	45a	693
pallasioides.. ..	150	42c	569
paltus	245	13a	362
papillatum	248	20 s	150
paravirgatus ..	253	44f	308
parcicarinatus ..	353	21b	474
parkinsoni	86	22d	781
partschi	96	19e	246

	Genus.	Hemera.	Plate.
parvum	36	8e	127
parvus	258	14j	779
patefactor	397	20 o	410
patescens	259	23a	351
paululus	273	21a	754
pavimentarius	85	20 n	751
pavlowi	260	32d	170
pectinatus	261	44d	354
pelekus	264	20 l	399
peramatum	305	14i	50
peregrinum	5	16f	88
perexpansum	180	20 r	134
perfectum	82	20 h	314
perfoliatum	384	8h	137
perjucundus	179	20 r	712
perlobulatum	190	14h	440
persecans	249	33i	588
personatum	98	5e	187
phæinum	154	31i	490
phanerus	271	22c	211
phaulomorphus	274	23a	643
phaulus	53	21g	169
phillipsi	280	15c	85
phlyctænoides	104	20 k	387
phyllinus	279	10 c	465
pickeringius	374	34c	448
pingue	396	15b	80
pingue	62	13q	728
pirondii	48	1f	304
placenta	193	31n	148
plagium	355	21a	229
planicerclus	52	29f	417
planiforme	283	19e	356
planilobus	285	23a	327
planulatum	82	20 h	264
planum	181	9n	696
planus	128	29a	287
plastum	288	33e	617
plataulax	30	38j	567
platygaster	377	20 g	277
platymorpha	397	20 o	580
platypleurus	289	12j	698
platyrrymum	149	21g	240
platys	284	19h	579
plenus	19	20 s	659
pleurifer	298	22c	478
pleurophorus	297	25b	370
poculum	299	32d	185
pollubrum	401	23b	259
pollux	350	31e	487
polygyralis	135	46e	620
polygyralis	53	21g	163
polymeles	42	47e	257
polyophyllum	240	8g	8
polypleurus	297	25b	371
polypreon	301	46e	591
polysphinctes	303	23a	322
præclarus	383	25e	368
prænuntius	306	19h	466
præpositum	270	14i	701
primiferus	300	21c	756
primitivus	308	4f	678
princeps	333	2f	395
pringlei	338	44c	562
prionodes	309	36c	155
proboscide	165	44c	651
profectus	108	20 s	430
projectifer	336	20 l	411
proniæ	189	31l	436
propeserpentinus	147	14b	218
propinquans	344	20 t	298
prosphues	100	20 b	397
protrusus	170	20 b	317
pseudo-anceps	88	23a	174
pseudocordatus	325	35a	560
pseudo-elegans	90	13h	110
pseudogigas	380	47b	385
pseudomartinsi	313	22a	200
pseudoprocerum	401	23b	623
pseudovatum	238	14d	
			111B, C
pulchra	232	21f	670
puteale	319	32d	297
puteolus	51	15b	61
pygmæum	222	21d	323
quadrarium	49	33a	690
quadratum	390	33s	619
quadricornutum	277	10 a	33
quinqueplicata	133	29e	586
rachis (*see* rhachis)	390	33s	648
radiatus	24	7f	35
rarecostata	256	22a	352
rarescens	395	44b	561
raricostatoides	89	9l	425
recinctus	27	23g	484
redcarensis	333	2f	608
reductus	338	44b	384
regulare	247	12l	77
regulatus	300	21c	746
reineckii	255	10 e	748
reparator	389	22b	366
replictus	303	23a	359
resupinatum	98	5e	6
retentum	322	8d	166
reticularis	6	12k	1
reticulatus	158	10 a	407
retusum	76	9e	82
reversum	328	31k	145
revertus	400	7e	771
rhabdodes	323	21g	374
rhabdouchus	401	23b	300
rhachis	390	33s	648
rhedarius	148	47f	514
rhodanica	84	17c	668
rhytus	324	20 s	250
ripleyi	385	10 g	2
robinsoni	376	10 j	220
robustum	242	33p	634
rotarius	81	4a	571
rotifer	269	31k	113
rotundiventer	404	14j	743
rotundum	244	44g	590
rotundum	174	31n	504
rotundum	33	11b	129
rowlstonense	189	31l	437
ruber	326	20 q	642
rudis	75	15c	14
rugatum	251	19e	578
rugifer	327	25c	338
rugosum	243	32c	115
ruidum	106	1f	423
runcinatum	370	28g	318

	Genus.	Hemera.	Plate.
rursicostatum ..	194	31j	501
rursum	88	23a	758
sagitta..	329	33n	260
scalariformis ..	261	44d	705
scarburgense ..	332	32b	508
schlöenbachi ..	142	22e	493
scoresbyi	400	7e	39
scoticum	334	33j	599
scriptitatum ..	131	20 a	388
scythicus	393	45a	675
secundarium ..	12	33p	629
sedgwickii	134	31f	598
sedgwickii	6	12h	125
semicelatus.. ..	177	13f	31
semicosta	146	14m	685
semicostatum ..	26	5a	112
semicostulatum ..	187	20 n	400
seminudatus ..	379	37e	494
senile	33	11b	126
septicarinatus ..	359	22a	470
septicostatus ..	45	21f	432
septifer	369	28f	433
serpentiniformis. .	145	13p	138B, 267B
serpentinus.. ..	147	14b	138A, C
serrigerum	12	33p	691
sidericum	155	33a	296
siemensi—*see* perlobulatum.			
silphouense.. ..	28	32g	364
simile	151	9g	609
simpsoni	2	8d	66
simulacrum.. ..	46	21g	458
simulans	345	20 s	631
simus	340	46g	402
sinuatum	76	9e	94
siphunculare ..	16	8c	48
skolex	343	20 s	249
sociale	76	9e	95
solitarium	247	12k	52
soloniacense ..	198	14k	721
spatians	346	20 o	765
spatiatum	391	32d	116c
sphæra	216	25h	167
sphæroconicus ..	96	19e	315
sphæroidalis ..	348	25a	367
sphenoidea	325	35b	672
spicatum	349	13s	777
spicatum	76	9e	103
spiculatum	154	31g	565
spinifera	397	20 o	168
spiniger	108	20 s	215
stabilis	152	28a	515
stegeus	352	22c	312
stibarum	260	32d	197
stomphus	357	22a	247
strangwaysi ..	140	13m	739
strigifer	359	20 o	469
strumatum	77	36b	747
stutchburii ..	13	31b	531
subcadiconica ..	92	20 p	711
subcarinata ..	107	14e	23
subconcavum ..	317	13q	10
subcontractus ..	382	25i	270
subcuneiformis ..	311	29a	227
subdivisus	389	22b	190
subgaleatus.. ..	142	22f	790
subguibalianus ..	121	8j	527
sublæve	44	29j	275
subordinarium ..	87	31p	172
subovale	222	21d	324
subplanicosta ..	210	9b	509
subprocerum ..	401	23b	624
subrefractum ..	228	22c	176
subrotundata ..	64	46g	607
subrotundum ..	370	28g	319
subserpentinus ..	145	13p	217
subsulcatum ..	370	28g	310
subtense	265	31m	99
subtriangulare ..	76	9e	71
sulcatum	17a	8a	38
sulcatus	286	14h	393
superba	397	20 o	556
superstes	309	36d	422
suspensus	361	26a	346
symplectus	291	21g	471
tardarmatum ..	20	9s	542
tardum	363	13r	741
temperatus ..	225	14h	731
tenellus	24	7f	54
tenuicostatus ..	365	13f	157
thouarsense ..	130	16b	774
titan	368	47d	231
tmetolobus	310	23a	416
tolype	44	29a	406
toricellii	370	28g	292
torosus	266	33d	563
toxoconicum ..	351	22a	492
toxophorus ..	373	13r	776
transformatum ..	98	5e	75
trichophorum ..	113	29j	291
tricostulatus ..	395	44b	365
trifurcatus	311	29i	360
trifurcatus	37	22c	622
trigonalis	195	44g	674
trigonalis	337	20 l	517
trikranus	166	46f	535
trilobitoides ..	377	20 g	140
trinode	13	31b	759
trinus	378	31k	332
triornatum	20	9s	783
trivialis	302	10 d	53
trophon	380	47b	325
truculentum ..	309	36c	704
truellei	360	22c	472
tubellus	381	9j	491
See also anguiforme.			
tula	382	25i	269
tulotus	383	25e	369
tumulosus	269	34a	714
turneri	24	7a	221
turriculatum ..	270	13f	30
tutcheri	4	43a	692
tutthum	347	21g	258
typicum	293	9m	695
typus	256	22a	789
typus	292	9m	694
umbilicata	232	21h	671
undifer	336	20 l	427
undifera	220	20 u	753
vagabunda	92	20 r	723
validum	76	9e	83

	Genus.	Hemera.	Plate.
vaschaldi	88	23a	321
vau	387	46h	536
ventrale	128	29a	288
vermicularis ..	126	23d	547
vermiformis ..	389	22c	162
vermis	388	14f	68
vernoni	171	33h	333
verticosum	305	14i	91
vertumnus	391	32d	116A
verus	200	28f	334
vettersianum ..	28	33q	760
victoris	392	8h	136
vigoense	198	14k	684
vitreum	210	9b	529
vortex	305	14i	29
vorticellum.. ..	305	14i	90

	Genus.	Hemera.	Plate.
waageni (*see* lectotypa).			
walcotti	146	14h	773
waltoni	351	22a	540
waterhousei ..	239	26b	476
whitbiense	317	15b	42
williamsoni ..	320	32d	118B
woodwardi	4	43a	637
wrighti	58	21c	415
xeinus	399	17f	266
zeta	118	47c	452
ziphus	400	7e	632
zugium	405	31h	389
zugophorus.. ..	406	20 l	341

V.—LIST OF NAMES OF FIGURED SPECIES ALTERED DURING THE COURSE OF PUBLICATION.

Plate No.	*Date of Issue.*	*Name on Original Plate.*	*Corrected Name.*	*Reference to Correction. Vol. and Page.*
		VOL. I.		
6	xii, 09	Agassiceras resupinatum ..	Euagassiceras resupinatum..	V, 33.
12	iii, 10	Hildoceras levisoni	Hildaites levisoni	III, 55.
16	iii, 10	Rhacoceras ambiguum ..	Tragophylloceras ambiguum	I, *vii*, *viii*.
20	iii, 10	Amaltheus lenticularis ..	Amauroceras lenticulare ..	II, *vii*.
31	iv, 11	Dactylioceras semicelatum	Kryptodactylites semicelatus	VI, 41.
37	iv, 11	Ægoceras nautiliforme ..	Anisoloboceras nautiliforme	II, *xv*.
38	xi, 11	Schlotheimia sulcata ..	Angulaticeras sulcatum ..	VI, 24.
51	ii, 12	Dactylioceras athleticum ..	Athlodactylites athleticus ..	VI, 43.
58	v, 12	Dactylioceras crassulosum..	Athlodactylites crassulosus ..	VI, 43.
59	v, 12	Cœloceras fonticulum.. ..	Nodicœloceras fonticulum ..	VI, 42.
60	v, 12	Cœloceras crosbeyi	Nodicœloceras crosbeyi	VI, 42.
61	x, 12	Cœloceras puteolus	Catacœloceras puteolum ..	VI, 44.
63	x, 12	Peronoceras annuliferum ..	Spinicœloceras annuliferum..	VI, 42.
66	x, 12	Ætomoceras simpsoni ..	Agassiceras simpsoni	V, 33.
		VOL. II.		
68	v, 13	Dactylioceras vermis	Vermidactylites vermis ..	VI, 42.
69	v, 13	Cœloceras foveatum	Crassicœloceras foveatum ..	VI, 42.
75	viii, 13	Agassiceras transformatum	Euagassiceras transformatum	V, 33.
89	x, 13	Cœloceras crassoides	Nodicœloceras crassoides ..	VI, 42.
119	xii, 18	Cœloceras crassum	Crassicœloceras crassum ..	VI, 42.
		VOL. III.		
131	viii, 19	Coroniceras bucklandi ..	Ammonites bucklandi	IV, 56,-57.
138a	viii, 19	Hildoceras serpentinum ..	Hildoceratoides serpentinus	III, 55.
138b	x, 19	Hildoceras serpentinum ..	Hildaites serpentiniformis ..	III, 55.
154	iii, 20	Lamberticeras lamberti ..	Bourkelamberticeras lamberti	III, 17.
155	iii, 20	Prionoceras prionodes ..	Prionodoceras prionodes ..	III, 17.
157	vi, 20	Dactylioceras tenuicostatum	Tenuidactylites tenuicostatum	VI, 41.
184	xii, 20	Dichotomoceras ingens ..	Dichotomosphinctes ingens..	IV, 57; VII, 5.
187	xi, 20	Agassiceras personatum ..	Euagassiceras personatum ..	V, 33.
209	iii, 21	Porpoceras crassiusculum ..	Simplidactylites crassiusculus	VI, 43.
212	iii, 21	Dichotomoceras alligatum..	Alligaticeras alligatum ..	IV, 57.
222	v, 21	Ætomoceras nodulatum ..	Agassiceras nodulatum ..	V, 33.
		VOL. IV.		
287	iii, 22	Gowericeras gowerianum ..	Gowericeras planus	Pl. 287*.
384	iii, 23	Wheatleyites reductus ..	Shotoverites reductus	VI, 8, 9, 15.
		VOL. V.		
440	xii, 23	Lobolytoceras siemensi ..	Lobolytoceras perlobulatum	Pl. 440.*
482	iv, 24	Leptechioceras aplanatum..	Euechioceras nobile	Pl. 482.*
524	x, 24	Oppelia waageni	Oppelia lectotypa	Pl. 524.*
		VOL. VI.		
656	viii, 26	Dactylioceras delicatum ..	Anguidactylites delicatus ..	VI, 44.
718	vi, 27	Schlotheimia antiquata ..	Macrogrammites antiquatus	Pl. 718.*

VI.—LIST OF NEW SPECIES AND NEW TRIVIAL NAMES APPEARING FIRST IN THE TEXT.

This list includes species not figured in this work, and those of which the description preceded or was published at the same time as the figures. For cases in which description followed the issue of plates, see the references in the right-hand column of Table III.

	Vol.	*Page.*	*Date of issue.*	*Plate (if figured), with date.*
Amaltheus armiger, costiger	I	25d	iii, 11	—
evolutus	I	C	x, 12	—
nodifer	I	25d	iii, 11	—
Anguidactylites anguiformis	VI	41	xii, 26	763 (ii, 28).
Bullatimorphites bullatimorphus	III	47	vii, 21	272 (i, 22).
Cardioceras cardia	III	15	iii, 20	—
Crassiplanulites crassicosta	III	41	v, 21	228 (v, 21).
crassiruga	III	42	v, 21	253 (ix, 21).
lahuseni	III	42	v, 21	—
Crassicœloceras pingue	VI	42	xii, 26	728 (viii, 27).
Curvidactylites curvicosta	VI	43	ii, 27	708 (iv, 27).
Deroceras pugnax	II	103c	vi 14	—
Diplesioceras diplesium	III	25	xi, 20	177 (ix, 20).
Ebrayiceras jactatum	III	23	ix, 20	769 (ii, 28).
ocellatum	III	23	ix, 20	173 (ix, 20).
rursum	III	23	ix, 20	758 (xii, 27).
Echioceras alpinum	II	96c	i, 14	—
boreale	II	96d	i, 14	
delicatum, modestum; polygyratum, prorsum; rhodanicum, scoticum, subobsoletum, subquadratum	II	96 c	1, 14	—
Emileia crater	II	ix	v, 13	164 (vi, 20).
Emileiites malenotatus	VI	46	ii, 27	702 (ii, 27).
Gowericeras metorchum	III	54	vii, 21	254 (ix, 21).
Harpoceratidarum hollandi	V	28	vi, 24	500 (vi, 24).
schlippei, typus	V	28	vi, 24	—
Haselburgites admirandus	III	30	xi, 20	203 (i, 21).
Korythoceras korys	III	17	vi, 20	361 (xii, 22).
Leptodactylites leptum	VI	42	xii, 26	—
Lobodactylites lobatum	VI	42	xii, 26	730 (viii, 27).
Maceratites costulatus	VII	11	iv., 28	—
Madarites calvus	III	46	vii, 21	—
glabretus	III	52	vii, 21	—
madarus	III	46	vii, 21	271 (i, 22).
pravus	III	46	vii, 21	—
Mercaticeras involutum; umbilicatum	II	*vii*	xi, 13	—
Morrisiceras comma	III	48	vii, 21	285 (iii, 22).
homœoticum	III	48	vii, 21	—
korustes	III	48	vii, 21	274 (i, 22).
sknipum, tolmerum	III	48	vii, 21	—
Morrisites fornicatus	III	48	vii, 21	378 (iii, 23).
Multicœloceras multum	VI	42	xii, 26	785 (vi, 28).
Nomodactylites temperatus	VI	43	ii, 27	731 (viii, 27).
Œcoptychoceras subrefractum	III	24	ix, 20	176 (ix, 20).
Oppelia waageni [preocc. =lectotypa]	III	25	xi, 20	524 (x, 24; vi, 25).
Paltopleuroceras apyrenum, boreale	I	24d	iii, 11	—
Parechioceras haueri	II	100 c.	iii, 14	—
Parvidactylites parvus	VI	43	ii, 27	779 (iv, 28).
Pavloviceras bathyomphalum	III	18	vi, 20	196 (i, 21).
roberti	III	19	ix, 20	
stibarum	III	18	vi, 20	197 (i, 21).
Peridactylites consimilis	VI	42	xii, 26	778 (iv, 28).
Phlycticeras paronai, waageni	II	98c	iii, 14	—
Pleurocephalites liberalis	V	23	vi, 24	558 (iv, 25).
Pleurophorites pleurophorus	III	47	vii, 21	370 (ii, 23).
polypleurus	III	47	vii, 21	371 (ii, 23).

	Vol.	Page.	Date of issue.	Plate (if figured), with date.
Pœcilomorphus anguinus	VII	10	xii, 27	757 (xii, 27).
asper, capillaceus, evolutus, fasciatus, inclusus	VII	10	xii, 27	—
primiferus	VII	10	xii, 27	756 (xii, 27).
umbilicatus	VII	10	xii, 27	—
Proplanulites applanatus, auriculatus,	III	37	iii, 21	—
basileus	III	34	iii, 21	252 (ix, 21).
capistratus	III	37	iii, 21	213 (iii, 21).
capularis	III	41	v, 21	—
curvus	III	35	iii, 21	—
excentricus	III	39	iii, 21	379 (iii, 23).
fabricatus	III	36	iii, 21	251 (ix, 21).
ferruginosus	III	34	iii, 21	—
fracidus	III	40	iii, 21	507 (viii, 24).
fulvus	III	39	iii, 21	—
involutus	III	36	iii, 21	—
laboratus	III	36	iii, 21	645 (vi, 26).
lævigatus	III	34	iii, 21	232 (vii, 21).
latus	III	35	iii, 21	—
lentus	III	36	iii, 21	—
lyprus	III	38	iii, 21	
majesticus	III	34	iii, 21	226 (v, 21).
occultus	III	35	iii, 21	—
oidaleus..	III	38	iii, 21	—
opimus	III	35	iii, 21	—
partitus	III	39	iii, 21	—
petrosus	III	38	iii, 21	—
polonicus	III	35	iii, 21	—
rudis	III	37	iii, 21	—
rufus	III	39	iii, 21	—
stiphrus..	III	38	iii, 21	—
subcuneiformis	III	37	iii, 21	227 (v, 21).
tornquisti	III	35	iii, 21	—
tridens	III	38	iii, 21	—
trifurcatus	III	39	iii, 21	360 (xii, 22).
Rugiferites rugifer	III	46	vii, 21	338 (viii, 22; ii, 23).
Sagitticeras fastigatum	III	19	ix, 20	280 (i, 22).
sagitta	III	19	ix, 20	260 (xii, 21).
Schlotheimia sulcifera	I	38b	xi, 11	—
Simplidactylites simplicicosta	VI	43	ii, 27	—
Sphæromorphites sphæroidalis	III	49	vii, 21	367 (ii, 23).
Spinicœloceras spicatum	VI	42	xii, 26	777 (iv, 28).
Toxodactylites toxophorus	VI	42	xii, 26	776 (iv, 28).
Tragophylloceras typicum	I	*viii*	x, 12	—
Tulites cadus, tula	III	45	vii, 21	268, 269 (i, 22).
Tulophorites præclarus, tulotus ..	III	45	vii, 21	368, 369 (ii, 23).
Vertebriceras dorsale	III	16	iii, 20	198 (i, 21).
rhachis	III	16	iii, 20	648 (vi, 26).
Weissermeliceras longilobatum	III	20	ix, 20	183 (xi, 20).

NEW BRACHIOPOD SPECIES.

Orbiculoidea glabella	V	—	—	534b (xii, 24).
Ornithella digonoides	II	10	v, 13	—

CORRIGENDA.

Vol. II.

p. *ix*, l. 14 from bottom, for "1890" read "1892."

Vol. III.

Pl. CL B, for "28 (24)" read "23 (21)."
Pl. CLIII, for "1889" read "1892."
Pl. CCXLIX, for "1916" read "1915."

Vol. IV.

Contents of Part XXXIII, under 300, "Zigzagiceras" should be in ordinary type, and under 301, "Zigzagites" should be in Clarendon type.

Pl. CCCXXIV A and B, for "1903" read "1905."

Pl. CCCXXXV, for "1890" read "1892," and for "Q.J.G.S. XLVI," read "Q.J.G.S. XLVIII."

Vol. V.

Contents of Part XLIII, under 450, "Cymatosphinctes" should be in Clarendon type.
" " XLIV, under 459, "Scaphitodites" should be in Clarendon type.
Pl. CDXCVI A, for "1876" read "1877."
Pl. DXXVIII A, for "SONNITES" read "SONNINITES."
Pl. DLXX A and B, delete "genotype."

Vol. VI.

P. 42, l. 6, for "crossleyi" read "crosbeyi."
Pl. DCXI, for "1898" read "1896."
Pl. DCXXIII and DCXXIV, for "Q.J.G.S. xlvi" read "Q.J.G.S. xlviii."
Pl. DCCXIII, for "Siemiradski" read "Siemiradzki."

Vol. VII.

Pl. DCCLXI B, for "grammiticus" read "grammicus."

Publication Details

Parts	*Pages*	*Plates*	*Dates*
LXIV (16 plates)		XXXIA, DVIB, DCXXC, D, DCCXVIII–DCCXXVII	30, VI, 1927
LXV (18 plates)		LXXXIXA, CDXLVIA, B, DCXXXVIIIC, D, DCCXXVIII–DCCXXXVI	25, VIII, 1927
LXVI (18 plates)	5–8	DXVIIIA-B, DCCXXXVII–DCCXLVII	28, X, 1927
LXVII (16 plates)	9, 10	DCCXLVIII–DCCLX	30, XII, 1927
LXVIII (16 plates)		DCCXVIIIA*, B*, DCCLXI–DCCLXX	1, III, 1928
LXIX (18 plates)	11–14	DCCLXXI–DCCLXXXII	30, IV, 1928
LXX (16 plates)		DCLIIA, DCCLXIVA, DCCLXXIIIA, DCCLXXXIII–DCCXC	28, VI, 1928
LXXI–LXXII	15–78	.. ..	9, I, 1930

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Ancolioceras	19 c	37
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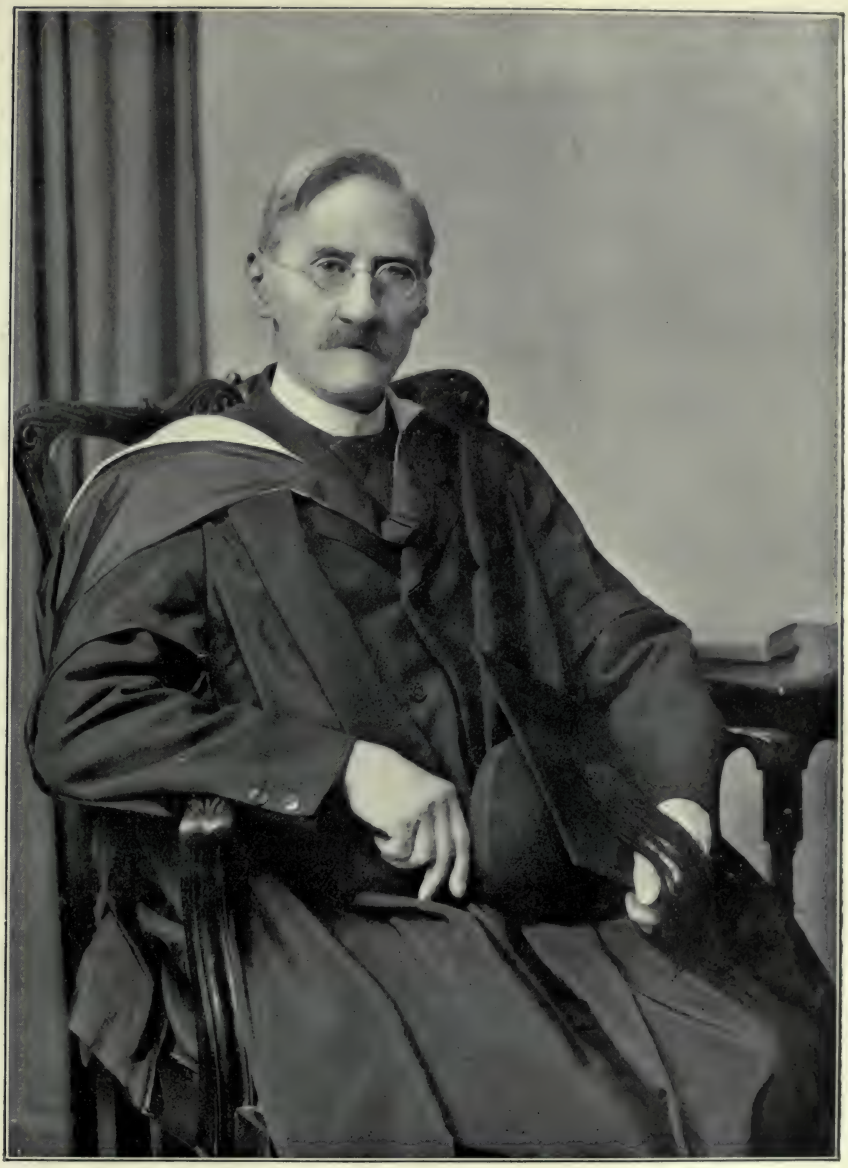

J. W. Tutcher
Lyell Award (Geological Society of London), 1924
President of Field Section, Bristol Naturalists' Society
President of Geological Section, South Western Naturalists' Union

JOHN WILLIAM TUTCHER, M.Sc.
June 16, 1858—

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BY

S. S. BUCKMAN

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721. Harpoceras sp. nov. (Maconiceras soloniacense) .. .. .. DCCXXI

722. Harpoceras sp. nov. Maconiceras **lassum** .. .. DCCXXII

723. Emileia brocchi (Emileia **vagabunda**) .. .. .. DCCXXIII A, B

724. Sphæroceras gervillii (Chondroceras gervillii) .. .. .. DCCXXIV

725. Sphæroceras brongniarti (Sphæroceras **globus**) .. .. DCCXXV

726. Ammonites martinsii (Bajocisphinctes **curvatus**) .. DCCXXVI

727. Ammonites sublævis (Pseudocadoceras **laminatum**) .. DCCXXVII

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Fig. 1

Fig. 2

AMMONITES SEMICELATUS ; S. Buckman, 1926, cit. spec.
T.A., vi, p. 41 ; Whitby, Yorkshire ; Upper Lias [Grey Shales]
S.B. Coll. 463 ; S. 33, 36·5, 35, 41 ; 56, 28·5, 26·5, 44·5

KRYPTODACTYLITES SEMICELATUS, SIMPSON SP., 1843
Harpoceratan, *tenuicostatum* ; Genotype. Cf. XXX

Fig. 1

Fig. 2

" CLYDONICERAS SP."
" Cards Farm, 1 m. S. of South Brewham, Som. ; Cornbr., Closeworthian
" Top of *obovata—Trig.* & *Astarte* hor. (J.W.D.) ; Douglas & Arkell Coll."
S. 36·5, 59, 27, 0 ; 60, 60, 25, 0 ; has columella
Figd. for the precision of horizon given by its collectors

CLYDONICERAS DISCUS, J. SOWERBY SP.
Clydoniceratan, *discus*. Cf. D

Fig. 2 N.S., at *B*

Fig. 1
× 0·35

AMMONITES GIGANTEUS
Chilmark, Tisbury, Wiltshire; Portland Stone
"Green Bed," cf. H. B. Woodward, Ool. Rocks, 1895, p. 203
(No. 13 Benett, see T.A., DXX); S.B. Coll. 4336

GYROMEGALITES POLYGYRALIS, S. BUCKMAN, 1925
Behemothan, *polypreon*; Cf. CDI

For face, Pl. DCXX c, fig. 2

AMMONITES GIGANTEUS
Chilmark ; S.B. 4336. Matrix, hard, whitish, feebly glauconitic stone
S. (305, 26·5, 24, 59 ; 355, 23+, 24·5, 58), approximate
Sl. (77, —, 57, 39 ; 80, 55, 47+, 39), all worn, shortened

GYROMEGALITES POLYGYRALIS, S. BUCKMAN, 1925
Behemothan, *polypreon* ; Cf. CDI

Fig. 1 Fig. 2

× 0·7

AMMONITES ANTIQUATUS, SIMPSON, 1855, Holotype
Foss. Y.L., p. 36. "[Robin Hood's Bay], Whitby, Yorkshire
"Lower Lias, [*bucklandi* beds, J. F. Blake, 1876, 272]
"Whitby Mus. 79, 80," 2 fragments, beginning of body-chamber

SCHLOTHEIMIA ANTIQUATA, SIMPSON SP.
Schlotheimian, *marmorea*. See CCCXCV

AMMONITES ANTIQUATUS, SIMPSON, 1855, Holotype
[Robin Hood's Bay], perhaps washed from submerged reefs
Whitby Mus. 79, 80 ; ϕ.(184, 44, 23, 32), estimate
Distinct longitudinal striæ ; see also Simpson

SCHLOTHEIMIA ANTIQUATA, SIMPSON SP.
Schlotheimian, *marmorea*. See CCCXCV

Fig. 1

Fig. 2

AMMONITES CRASSESCENS, SIMPSON, 1855, Holotype
Foss. Y.L., p. 55 ; " Whitby, Yorkshire, [Upper Lias]
" Whitby Mus., 135 ; " S. 49, 26, 28, 53 ; 61, 22, 32, 57

NODICŒLOCERAS CRASSESCENS, SIMPSON SP.
Harpoceratan, *falciferum*. See XCI

Fig. 2 Fig. 1 Fig. 3

DACTYLIOCERAS BRAUNIANUM
" Vigo [Brickyard], Northampton, Upper Lias, *braunianum* z.
" S.B. Coll. 4638, pres. Mr. B. Thompson, F.G.S."
S. 37, 27, 24·5+, 46; 55, 26, 23, 53; has mouth

ZUGODACTYLITES MUTATUS, NOV.
Hildoceratan, *braunianus*; Holotype. See DCLVIII

Fig. 1a × 1·4

Fig. 1

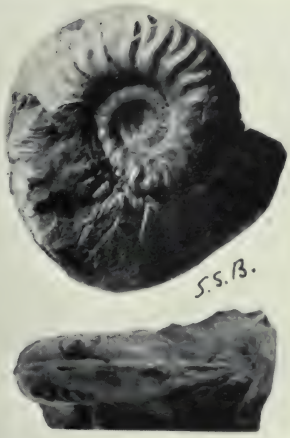


Fig. 2

" HARPOCERAS nov. sp., B. THOMPSON, 1905, cit. spec.
" Jour. Northants N. Soc., xiii, 55 ; Heyford, Weedon, Northants
" Upper Lias, *Cerithium* Beds ; B. Thompson Coll."
S. 20·5, 41·5, 39, 32 ; 30, 40, 34, 35 ; lappet 11 mm.

MACONICERAS SOLONIACENSE, LISSAJOUS SP. 1906 (1, 5)
Hildoceratan, *vigoense*. See DCLXXXIV

Fig. 1a × 1·4 Fig. 1

Fig. 2

"HARPOCERAS nov. sp., B. THOMPSON, 1905, cit. spec.
"Jour. Northants N.S., xiii, 55; Vigo Brickyard, Northampton
"Upper Lias, *Cerithium* Beds; B. Thompson Coll."
S. 15·5, 38, 32, 26; 27·5, 42·5, 33·5, 28. (Lissajous, 1906, 1, 4, 6)

MACONICERAS LASSUM, NOV.
Hildoceratan, *vigoense*; Holotype. See

× 0·92

EMILEIA cf. BROCCHI
[Rolling Bank], Cleeve Hill, Cheltenham, Glos ; I.O., [*Bourguetia* beds]
Matrix, grey, hard, crystalline, shelly stone, brown specks
(Q.J.G.S., liii, 1897, p. 609, § 2, III, 1), post-*Witchellia* ; S.B. 3349

EMILEIA VAGABUNDA, NOV.
Sonninian, *Labyrinthoceras ?* ; Holotype. See DCCXI

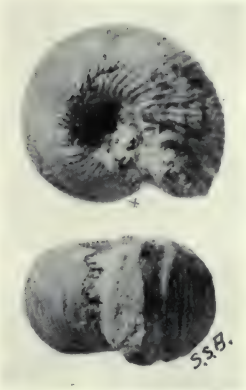
× 0·92

EMILEIA cf. BROCCHI
S.B. Coll. 3349, purch. from a cottage on Cleeve Hill
S. 90, 44, 46, 23·5 ; 151, 36, 30·5, 31·5 ; max. c. 275+
Sl. (plane) 51, 75, 72, 38 ; (extended) 65, 58, 57, 30

EMILEIA VAGABUNDA, NOV.
Sonninian, *Labyrinthoceras ?* ; Holotype. See DCCXI

Fig. 1

Fig. 2



SPHÆROCERAS GERVILLII ; S. BUCKMAN, 1881, cit. spec.
Q.J.G.S., xxxvii, 593, 597 ; near Sherborne, Dorset ; I.O.
Humphriesianum zone [lower part] ; S.B., ex J. B., Coll. 4763
S. 17, 44, 76, 24 ; 27·5, 43·5, 58, 26 ; size & max. 28

CHONDROCERAS GERVILLII, J. SOWERBY SP., 1817
Stepheoceratan, *Epalxites*. See CDXXXI

Fig. 1

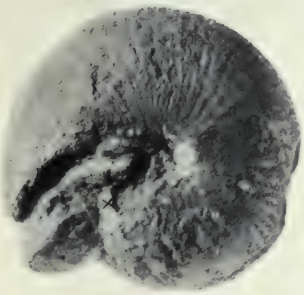
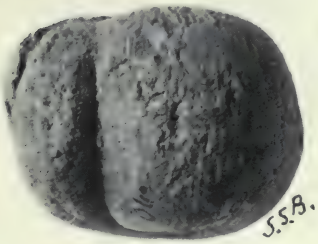


Fig. 2



SPHÆROCERAS BRONGNIARTI
Frogden Quarry, Oborne, Dorset ; I.O., Roadstone, [Upper part]
[Q.J.G.S., xlix, 1893, 500, § xv, 4] ; S. B. Coll. 4762
S. 28, 57, 102, 0 ; 40, 46, 73, 6 ; max. c. 42

SPHÆROCERAS GLOBUS, NOV.
Stepheoceratan, *Leptosphinctes* ; Holotype. See CCLVIII

Fig. 1

Fig. 2

Fig. 2a

Fig. 1a

" AMMONITES MARTINSII "
" Bradford Abbas, Dorset ; Inf. Ool.," [upper beds]
[Clifton Maybank, quarry near Ry.] ; S.B., ex Darell, Coll. 858
S. 43, 35, 35, 39·5 ; 73, 35·5, 30, 40 ; max. c. 120 +

BAJOCISPHINCTES CURVATUS, NOV.
Parkinsonian, *garantiana* ; Holotype. See DCCXIII

AMMONITES SUBLÆVIS ; PRATT, 1841, cit. spec. ?
Ann. Mag. N.H. viii, 165 ; " *Am.* sp. var. *duncani*
" Christian Malford, Wilts ; Oxf. Clay ; M.P.G. Coll. 30430 "
S. 27, 44, —, 16·6 ; 50, 43, —, 25·5 ; ribs 32

PSEUDOCADOCERAS ? LAMINATUM, NOV.
Kosmoceratan, "*acutistriatum*" (C.C.G.) ; Holotype. See CXXI

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TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs by
the Author

PART LXV
18 Plates

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Fig. 2

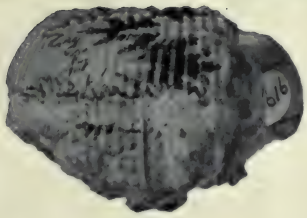


Fig. 1

CŒLOCERAS FONTICULUS
Upper Quarry, Barrington, Somerset ; Upper Lias, Bed 18/19
Mus. Pract. Geol. Coll. 31616 ; S. 31, 36, 58, 37 ; 48, 35, 50, 40·5

NODICŒLOCERAS CRASSOIDES, SIMPSON SP., 1855
Harpoceratan, *falciferum ;* Genotype, T.A. vi, p. 42, 1926

× 0·57

Fig. 2 ∧ Fig. 1

PERISPHINCTES MARTINSI
Vetney Cross, Bridport, Dorset ; I.O., [Shell Bed]
" V TN " in pencil near mouth-mark, above ∧
Continuation mark to ∧ ; body-ch. ½ whorl ; S.B. Coll. 4734
Septal and costal degeneration, with test-thickening

PRORSISPHINCTES MESERES, S. BUCKMAN, 1923
Parkinsonian, *Vermisphinctes*. See CCCXXVI

Fig. 1

S.S.B.

Fig. 2

N.S.

PERISPHINCTES MARTINSI
Vetney Cross ; S. B. Coll. 4734, ex. T. Wright Coll., purch.
S. 141, 33, 30·5, 44·5 ; ribs 41 ; 232, 29, 25·5, 48 ; max. c. 305
Sl. 50, 66, 58, N. 66 ; 60, 37, 33, N. 37. Test, fig. 1, side, 4 mm. thick

PRORSISPHINCTES MESERES, S. BUCKMAN, 1923
Parkinsonian, *Vermisphinctes*. See CCCXXVI

× 0·49

" PERISPHINCTES DORSOPLANUS "
Sphinctoceras distans, Neaverson, 1925, Holotype ; Amm. Kimm. 23 ; IV, 3
Brickyard, N.W. corner of Shotover Hill, above Headington Quarry, Oxon
Kimm. Clay, Nodule Bed ; M.P.G. 27817, ex S. B. Coll.

ALLOVIRGATITES DISTANS, NEAVERSON SP.
Allovirgatitan, *woodwardi* ; Holotype. See DCXXXVII

Fig. 1

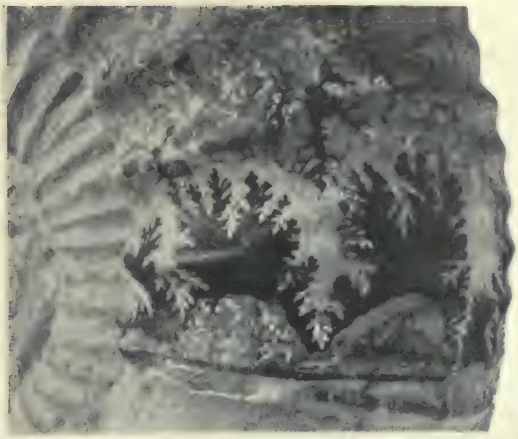


Fig. 2

"PERISPHINCTES DORSOPLANUS," cit. spec. 1923
T.A. iv, 33, 36; Headington; M.P.G. Coll. 27817
S. 156, 30, 43 (39), 51; ribs 39; (266, 29, 32, 51) ?; ribs 27
Outer whorl damaged; max. c. 350; sl. 49, 59, 55, 34

ALLOVIRGATITES DISTANS, NEAVERSON SP.
Allovirgatitan, *woodwardi*; Holotype. See DCXXXVII

Fig. 1 Fig. 2

CŒLOCERAS CRASSUM
Upper Quarry, Barrington, Somerset; Upper Lias, Bed 18/19
Mus. Pract. Geol. Coll. 38015; S. 37, 34, 62, 38; 58, 28·5, 58, 43

CRASSICŒLOCERAS PINGUE, S. BUCKMAN, 1926, vi, 42
Harpoceratan, *falciferum*; Genotype, Holotype. See CXIX

PORPOCERAS ACANTHUS, D'ORBIGNY SP.
(1850, Céph. jur. ; Pal. franç., p. 568 ; 1850, Prodr., 225)
(1908, Thevenin, Types d'Orb., Ann. Pal. iii, 37 ; XI, I)
" Shelway Lane, Barrington, Somerset ; M.P.G. 31637 "

NODICŒLOCERAS ACANTHUS, D'ORBIGNY SP.
Harpoceratan, *falciferum*. See LXXXIX

Fig. 1

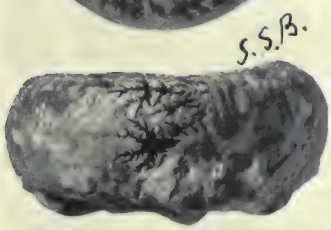
Fig. 2

PORPOCERAS ACANTHUS, D'ORBIGNY SP.
"Barrington, Somerset; Upper Lias, "loose" [Bed 18/19]
M.P.G. Coll. 31637; S. 59, 31, 46, 44; 90, 25·5, 30, 53·5
Max. c. 95. Body-chamber over a whorl in length

NODICŒLOCERAS ACANTHUS, D'ORBIGNY SP.
Harpoceratan, *falciferum*. See LXXXIX

Fig. 1

Fig. 2



CŒLOCERAS CRASSUM
Upper Quarry, Barrington, Somerset; Upper Lias
Bed 24; Mus. Pract. Geol. Coll. 38020
S. 25·5, 31, 49, 47; 45, 30, 42, 49; specimen rather worn

LOBODACTYLITES LOBATUM, S. BUCKMAN, 1926, T.A., vi, 42
Hildoceratan, *lobatum*; Genotype, Holotype. Cf. DCCXXVIII

Fig. 1

Fig. 2

DACTYLIOCERAS COMMUNE
Whitby, Yorkshire ; Upper Lias [Alum Shale] ; S.B. Coll. 4714, purch.
S. 35, 30, 42, 49 ; 54, 28, 39, 50 ; max. c. 90

NOMODACTYLITES TEMPERATUS, S. BUCKMAN, 1927, T.A. vi, 43
Hildoceratan, *bifrons* ; Genotype, Holotype. Cf. DCCVII

× 0·65

SPHÆROCERAS BROCCHI
[Sandford Lane], " near Sherborne " ; S. B., ex Darell, Coll. 2025
S. 113, 43, 50, 24 ; ribs 18 ; 184, 35, 37, 36 ; ribs 26 ; max. c. 320
Continuation-mark plain, showing body-chamber another whorl

EMILEIA BULLIGERA, NOV.
Sonninian, *Labyrinthoceras* ; Holotype. See DCCXXIII

× 0·65

SPHÆROCERAS BROCCHI
[Sandford Lane Qy.], "near Sherborne, Dorset; Inf. Ool."
Matrix brown, well-ironshot = Fossil Bed, upper part
(Cf. Q.J.G.S. xlix, 1893, 492, § IX, 6, J, *a*); S.B. ex Darell, Coll. 2025

EMILEIA BULLIGERA, NOV.
Sonninian, *Labyrinthoceras*; Holotype. See DCCXXIII

Fig. 1

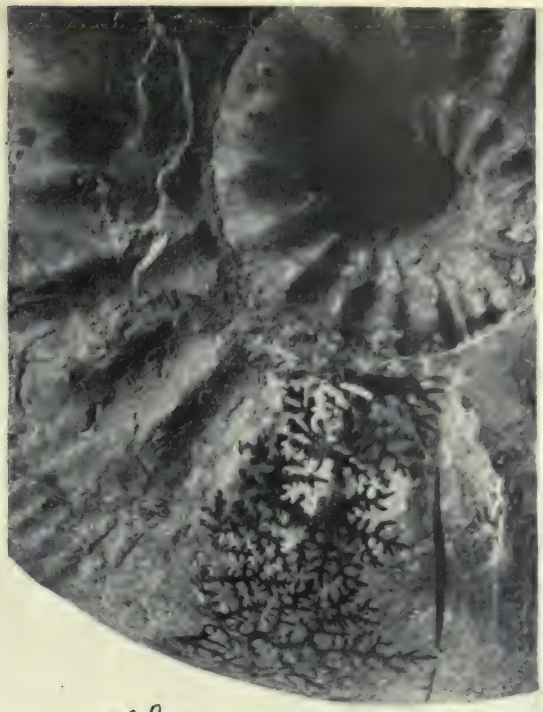


Fig. 2

N.S.

SPHÆROCERAS BROCCHI
[Sandford Lane], "near Sherborne, Dorset"; S. B. Coll. 2025
Primary ribs not club-shaped (clavate), but bulligerous
Sl. (plane) 49, 78, 70, 45; (extended) 64, 59, 53, 34

EMILEIA BULLIGERA, NOV.
Sonninian, *Labyrinthoceras*; Holotype. See DCCXXIII

Fig. 3

Fig. 2 Fig. 1

SPHÆROCERAS POLYSCHIDES
" [Sandford Lane], near Sherborne, Dorset ; Inf. Ool.," [Foss. Bed]
Up. part ; matr. brown, much ironshot ; S.B., ex Darell, Coll. 1244
S. 75, 42·5, 49, 23 ; 31 ribs ; 126, 34, 33, 35 ; 36 ribs
Size and max. with plain band mouth, 127

EMILEIA MULTIFIDA, NOV.
Sonninian, *Labyrinthoceras* ; Holotype. See DCCXXXII

Fig. 1

Fig. 2

Fig. 3

AMMONITES BRAIKENRIDGII
" [Clatcombe], near Sherborne, Dorset ; Inf. Ool., [*humph.* z.] "
S.B., ex Darell, Coll. 3174 ; *Normannites*, Munier-Chalmas, 1892
S. 40·5, 38, 52, 39 ; 68, 34, 40, 43 ; size and max. c. 71 ; body-ch. c. 5/8

NORMANNITES ORBIGNYI, S. BUCKMAN, 1908, p. 146
Stepheoceratan, *Epalxites*. Cf. CLIX

" AMMONITES SP. var. DUNCANI
" Christian Malford, Wiltshire ; Oxford Clay
" [Christian Malford Beds] ; M. P. G. Coll. 30427 "
S. 23·5, 44·5, —, 18 ; 44·5, 43, —, 24 ; ribs 39

PSEUDOCADOCERAS ? CONCINNUM, NOV.
Kosmoceratan, " *acutistriatum* " (C.C.G.) ; Holotype. See DCCXXVII

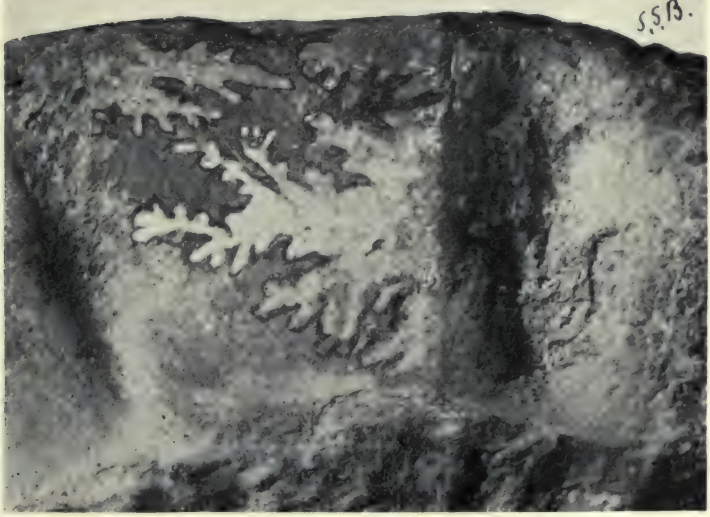
× 0·3

" PERISPHINCTES MARTELLI "
Headington Quarry, (Magdalen Coll. Pit), Oxfordshire
Corallian, " Shell Bed " ; S.B. Coll. 4289, purch.
Massive ribs not opposite; largest (in S.E.), 68 from mid. = c. 41%
EL = L1 = N. (*Martelliceras*, Schindewolf, 1925)

MARTELLICERAS ORIENTALE, SIEMIRADZKI, 1899, 259
Perisphinctean, *biplex* (*martelli*). Cf. DCCXIV

Fig. 2

Fig. 1



N.S.

" PERISPHINCTES MARTELLI "
Headington ; S.B. Coll. 4289 ; Sl. 60, 74, 72, N. c. 72
S. 293, 22, 34 (25), 60 ; 387, 22, c. 30, 60 ; max. 390
End of body-ch., hollows fill up, ribs decrease much in size

MARTELLICERAS ORIENTALE, SIEMIRADZKI, 1899, 259
Perisphinctean, *biplex* (*martelli*). Cf. DCCXIV

q 3

TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs by
J. W. TUTCHER, M.A., and the Author

PART LXVI
(Pages 5–8 and a Correction slip); 18 Plates

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October, 1927

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Fig. 1 × 0·67

Fig 2
N.S.

" AGASSICERAS HALECIS "
" Timsbury, Som. ; Low. Lias ; *sauzeanum* z. ; J.W.T. Coll."
Test, fine growth-lines, raised on ribs, sunk in interspaces ;
cross-hatching between them in places ; (also punctæ ?)

MEGARIETITES MERIDIONALIS, REYNES SP.
Coroniceratan, *meridionalis*. Cf. CXXXI

× 0·67

"AGASSICERAS HALECIS"
"Timsbury, Somerset; Lower Lias; J. W. T. Coll."
"S. 106, 38, 34, 39; 194, 34·5, 35 (32), 44"
"Aperture obliquely-truncate exaggerates thickness in fig." (J.W.T.)

MEGARIETITES MERIDIONALIS, REYNES SP.
Coroniceratan, *meridionalis*. Cf. CXXXI

× 0·73

" CORONICERAS GMUENDENSE "
" Clandown, near Radstock, Somerset ; Lower Lias "
" *Spiriferina* Bank, *gmuendense* ; J. W. Tutcher Coll."
" S. 95, 32, 27, 45 ; 173, 34, 31, 45," (J.W.T.)

PARACORONITES NODULIFERUS, NOV.
Coroniceratan, *gmuendense* ; Genotype, Holotype. Cf. DXVIII

× 0·73

Fig. 1 Fig. 2

" CORONICERAS GMUENDENSE "
" Clandown, near Radstock, Somerset ; Lower Lias "
" *Spiriferina* Bank, *gmuendense*, J. W. Tutcher Coll."
" S. 95, 32, 27, 45 ; 173, 34, 31, 45 ; " (J.W.T.)

PARACORONITES NODULIFERUS, NOV.
Coroniceratan, *gmuendense* ; Genotype, Holotype. Cf. DXVIII

Fig. 1

Fig. 2

STEPHANOCERAS COMMUNE

"Byfield, [Northamptonshire]; *acutum* layer on top of Marlstone "[Transition Bed (*athleticum*)]; Mus. Pract. G. Coll. 38384"
S. 28·5, 31, 26, 47; 42, 26, 21, 56; ribs 47; size c. 44; max. c. 55

ORTHODACTYLITES MITIS, NOV.

Harpoceratan, *directus*; Holotype. See DCLIV

Fig. 2

Fig. 1

AMMONITES STRANGEWAYSI, J. SOWERBY, 1820, Topotype (Min. Conch., iii, 99 ; CCLIV, 1, 3) ; "Barrington [near Ilminster], Som." "Up. Lias, Bed 6 ; M.P.G. Coll. 44681 ; " body-ch. 5/8 whorl + ? S. 104, 37·5, 18, 34 ; 162, 34·5, 15, 40,– test ; size c. 190 ; max. c. 205

HARPOCERATOIDES STRANGWAYSI, J. SOWERBY SP.
Harpoceratan, *strangwaysi*. See IX & p. 7

a

Fig. 1

Fig. 3
Longitudinal rib contour at *a* X c'4

Fig. 2

AMMONITES SERPENTINUS
"Upper Quarry, Barrington [near Ilminster] Somerset"
"Upper Lias, loose, [greenish clay-stone, cf. bed 6]; M.P.G. Coll. 38394"
S. 76, 40, 23·5, 30; 136, 33, 21·5, 40·5; max. c. 138

GLYPTARPITES GLYPTUS, NOV.
Harpoceratan, *strangwaysi*. Genotype, Holotype; p. 8. Cf. DCCXXXIX

× 0·9

Fig. 1

Fig. 2

Fig. 3

HARPOCERAS FALCIFERUM
" Upper Quarry, Barrington, Somerset ; Upper Lias
" Bed 22 ; Mus. Pract. Geol. Coll. 38382 "
S. 24·5, 45, 28, 28, + K ; 51, 40, 23, 29·5 ; max. c. 55

TARDARPOCERAS TARDUM, NOV.
Harpoceratan, *tardum* ; Genotype, Holotype ; p. 9. Cf. DCLXXXII

Fig. 2 Fig. 1

HARPOCERAS ELEGANS
" Upper Quarry, Barrington, Somerset ; Upper Lias
" Bed 25 ; Mus. Pract. Geol. Coll. 31623 "
S. 63, 47, c. 22, 25 ; 112, 44, 20·5, 28·5 ; max. c. 190 +

HARPOCERAS CONCINNUM, NOV.
Hildoceratan, *concinnum* (*subcarinata ?*) ; Holotype. See DCLXXXII

× 0·96

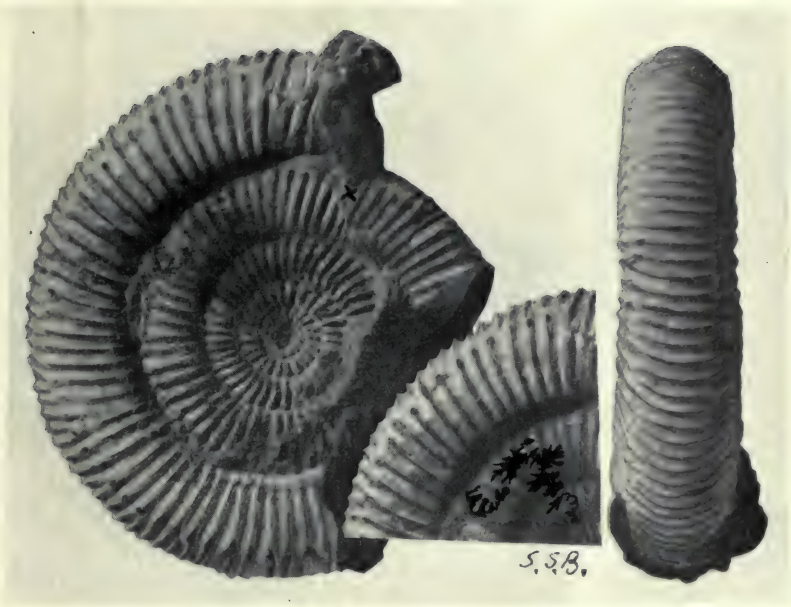


Fig. 1 Fig. 1a Fig. 2

"DACTYLIOCERAS BRAUNIANUM, var. b"
"Vigo [Brickyard], Northampton; Upper Lias, *braunianum* z."
"S. B. Coll. 4639, pres. Mr. B. Thompson, F.G.S."
S. 49, 26, 28, 51; 74, 23, 24·5, 59; has mouth, ridge and band
Early whorls coronate cadicone

ZUGODACTYLITES ROTUNDIVENTER, NOV.
Hildoceratan, *braunianus*; Holotype. See DCCXX

× 0·67

SPHÆROCERAS POLYSCHIDES
" [Sandford Lane Quarry,] near Sherborne, Dorset ; Inf. Ool." [Fossil Bed, Lower Middle part] ; matrix grey-green and brownish S.B., ex J. B., Coll. 1533. A. B., faint longitudinal depressions in cast, i.e., thickenings inside of test

EMILEIA CONTRAHENS, NOV.
Sonninian, *brocchii* ; Holotype. See DCCXXXIII

× 0·67

Fig. 3

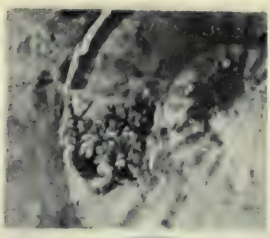


Fig. 2

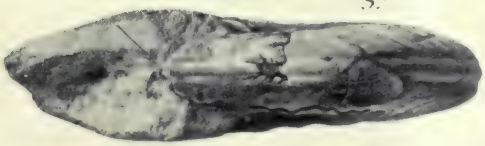
Fig. 1

SPHÆROCERAS POLYSCHIDES
"Sherborne;" S. B. Coll. 1533; body-chamber about $1\frac{1}{4}$ whorls, +?
S. 128, 39, 47, 36, 30 ribs into 3, 4; 205, 29, 32, 45 + test
Fig. 2, Contraction of whorl and narrowing venter, middle body-ch.

EMILEIA CONTRAHENS, NOV.
Sonninian, *brocchii*; Holotype. See DCCXXXIII

Fig. 1

Fig. 2
⟶ septicarina



AMMONITES LÆVIUSCULUS, J. de C. SOWERBY
(1824, M. C. v, 73 ; 451, 1) ; *Witchellia*, S. B., 1893, Q.J.G.S. 500, § XV, 9
Frogden Quarry, Oborne, Dorset ; Inf. Ool. (green marl)
S. B. Coll. 2308 ; S. 30, 50, 35, 29,–K ; 63, 50, 28, 22,–K ; max. c. 95
Other side, bifurcation of outer lobule of L1 feeble.

WITCHELLIA LÆVIUSCULA, J. de C. SOWERBY SP.
Sonninian, *Witchellia*. See DCLXXXIX and CDX

Fig. 1

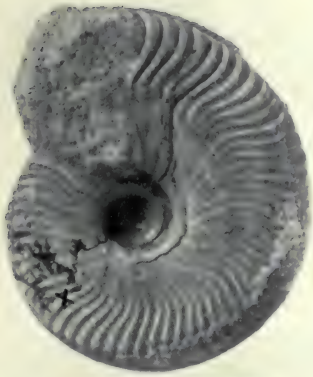


Fig. 3

Fig. 2

PŒCILOMORPHUS CYCLOIDES; S. BUCKMAN, 1893, cit. spec.
Q.J.G.S., xlix, 498, § XIV, 1; Clatcombe Farm, Sherborne, Dorset
Humphr. z.; S. B. Coll. 3088; has mouth with plain curve
S. 28, 44, 39, 21·5; 49, 49, 35, 19

PŒCILOMORPHUS REGULATUS, NOV.
Stepheoceratan, *Epalxites*; Holotype

× 0·45

" AMMONITES " VARIOCOSTATUS
" Sharnbrook, Bedford ; Oxford Clay " (Ampthill Clay)
S.B., ex Dr. T. Wright, Coll. 4735 ; has 3/8ths body-chamber
S. 139, 31, 36, 45 ; 216, 28, 37, 51 ; 271, 30, 33, 52 ; max. c. 375

DICHOTOMOCERAS STRUMATUM, NOV.
Prionodoceratan, *dichotomum* ; Holotype. See CXXXIX

× 0·56

" AMMONITES " VARIOCOSTATUS
" Bedford " ; S.B. Coll. 4735 ; less body-ch. Orig. label & copy
From Boulder Clay ? derived from Ampthill Clay
Side rubbed down artificially ; rubbing begun in Boulder Clay ?

DICHOTOMOCERAS STRUMATUM, NOV.
Prionodoceratan, *dichotomum* ; Holotype. See CXXXIX

N.S.

" AMMONITES " VARIOCOSTATUS
" Sharnbrook, Bedford " ; S.B. Coll. 4735 ; the body-chamber removed
Where the big ribs are weathered (or eroded ?)
more than 10 layers of test can be counted

DICHOTOMOCERAS STRUMATUM, NOV.
Prionodoceratan, *dichotomum* ; Holotype. See CXXXIX

N.S.

Fig. 3

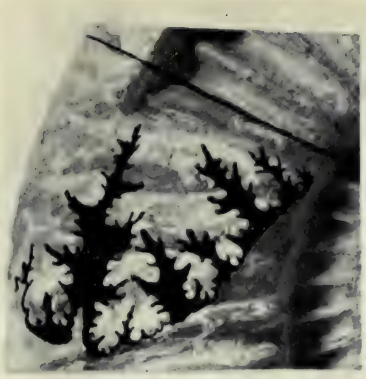


Fig. 2

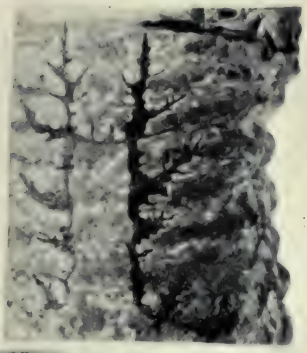


Fig. 4

Fig. 1

5.5.13.

" AMMONITES " VARIOCOSTATUS
" Bedford " ; S.B. Coll. 4735 ; Figs. 2–4, septal degeneration
Sl. 43, 93, 72, N. 81 ; 62, 53, c. 47, N. 57
Primary divide into 2 and frequently 3 on venter

DICHOTOMOCERAS STRUMATUM, NOV.
Prionodoceratan, *dichotomum* ; Holotype. See CXXXIX

TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs by
J. W. TUTCHER, M. Sc., and the Author

PART LXVII
(Pages 9, 10); 16 Plates

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CHELTENHAM

× 0·91

AMMONITES STRIATUS REINECKII, QUENSTEDT
(1884, Amm. Schwäb. J., 223 ; XXVIII, 5) ; *Parinodiceras*, Trueman
Abs. G.S., 1022, 1918, 66 ; *P. reineckii*, Id., Q.J.G.S., lxxiv, 1919, 288
Specimen cit. ; "Radstock, Somerset ; *valdani* ; S.B. 2098"

PARINODICERAS REINECKII, QUENSTEDT SP.
Polymorphitan, *brevispina*. Cf. CVIII

× 0·91

" Huish, Radstock, Somerset ; M.L., *ibex* or *jamesoni* ; S.B. Coll. 2098 "
S. 51, 56·5, 61, 11·8 ; 147, 59·5, 45, 9·5 ; max. c. 210
Sl. 69, 48, 55, 33·5 ; major radius last wh. 64 beg., 66 at end

PARINODICERAS REINECKII, QUENSTEDT SP.
Polymorphitan, *brevispina*. Cf. CVIII

Fig. 1

Fig. 2

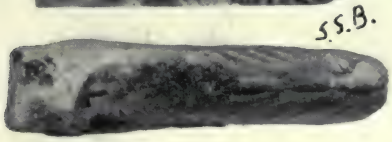
HARPOCERAS FALCIFERUM
" Ilminster, Somerset ; Upper Lias " ; S.B. Coll. 4795, ex T. Stock
S. 26·5, 36, 34, 34, –t ; 52, 44, 30, 32·5, –t ; max. c. 70+

HARPOCERAS FALCIFEROIDES, NOV.
Harpoceratan, *falciferum* ; Holotype. See DCCXLII

Fig. 1

Fig. 3

Fig. 2



WITCHELLIA SP., S. BUCKMAN, 1893, cit. spec.
Q.J.G.S., xlix, 499, § XIV, 8; "Clatcombe Farm (Upper Clatcombe) "Sherborne, Dorset; *discitæ η*"; S.B. Coll. 2705; septicarina S. 31·5, 41, 27, 28·5; 60, 38, 22, 33; max. c. 62

ZUGELLA CONNATA, NOV.
Sonninian, *fissibolata ?*; Genotype; Holotype. Cf. CCCXLI

Fig. 1

Fig. 2

SONNINIA SP., S. BUCKMAN, 1893, cit. spec.
Q.J.G.S., xlix, 512, § XIX, 3 ; Leckhampton Hill, Glos
I.O., The Pitching, (Notgrove Freestone equiv.) ; S.B. Coll. 3741
S. 37·5, 40, 25·5, c. 28, –k ; 69, 43·5, 24·5, 29, –k ; max. c. 95

DUNDRYITES PAVIMENTARIUS, NOV.
Sonninian, *mollis* ; Holotype. See DCLXXXVII

Fig. 1

Fig. 2

SONNINIA DELTAFALCATA
[Clatcombe, near] " Sherborne, Dorset ; I.O.," [*sauz.-humphr.*]
Iron grains few, largish ; S.B., ex J.B., Coll. 1071
S. 27·5, 33·5, 26·5, 36, – test ; 46, 32, 23, 43·5, – t ; max. c. 50

NANNINA EVOLUTA, NOV.
Sonninian, *alsaticus* ; Genotype, Holotype. Cf. DXXVIII

Fig. 1

Fig. 2

SONNINIA DELTAFALCATA
[Clatcombe, near] " Sherborne, Dorset ; I.O.," [*sauz.-humph.*]
Iron grains, few, largish ; S.B., ex J. B., Coll. 1072
S. 20, 32·5, 39, 34, – t ; 36, 33, 28, 44, – t ; max. c. 40

NANNINA UNDIFERA, NOV.
Sonninian, *alsaticus* ; Holotype. See DCCLII

Fig. 1

Fig. 2

Fig. 3

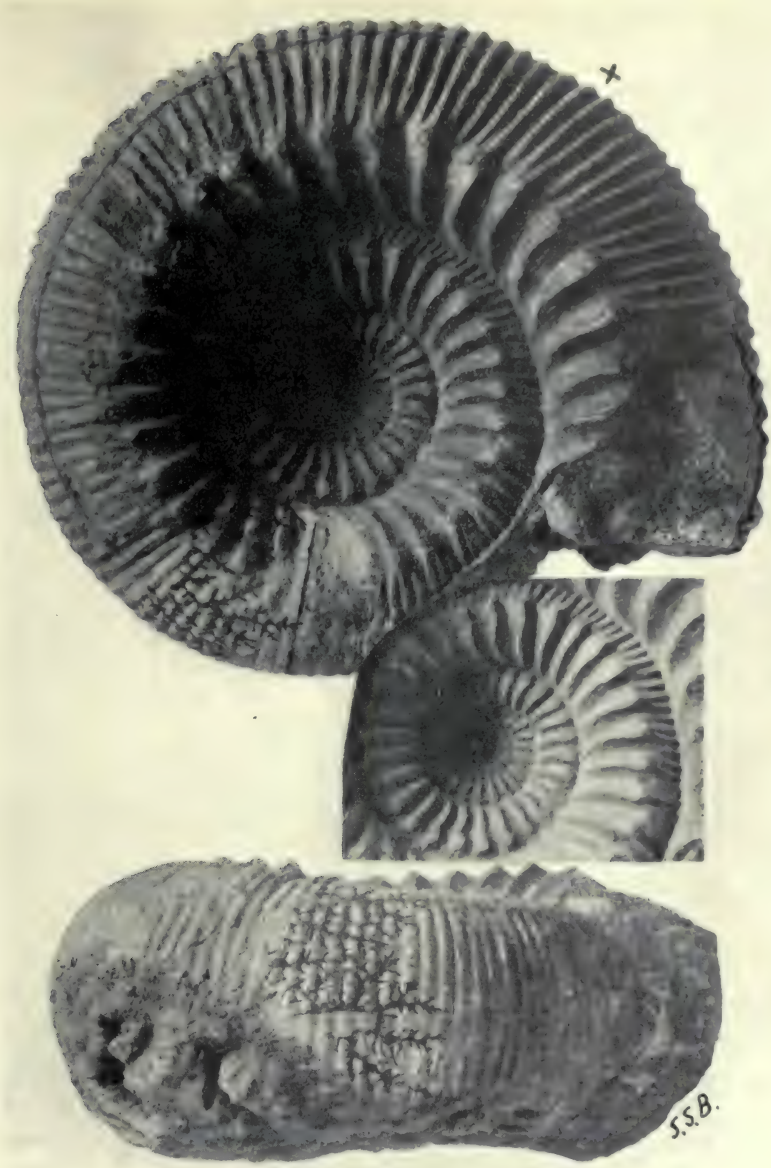
" AMMONITES HUMPHRIESIANUS "
[Clatcombe], "near Sherborne, Dorset ; Inferior Oolite"
Matrix, soft, brownish, with small iron grains ; S. B., ex Darell, Coll. 1192
S. 29, 31, 42, 41 ; 47, 29, 35, 47 ; max. 49
Mouth a raised band with ribs ; EL = L1 = N, simple

PHAULOSTEPHANUS PAULULUS, NOV.
Stepheoceratan, *Masckeites* ; Genotype, Holotype. Cf. DXVI

Fig. 1

Fig. 1a

Fig. 2



× 0·92

STEPHEOCERAS BRODIŒI
Burton Bradstock, Dorset; Inf. Ool., [Red Bed, Ironshot]
S.B. Coll. 3473, purch.; curving primaries; EL = L1 = N, complex
S. 64, 39, 59, 36; 108, 31, 51, 41; max. c. 190

KRETEROSTEPHANUS KRETER, NOV.
Stepheoceratan, *Epalxites*; Genotype, Holotype. Cf. CCCL

Fig. 1

Fig. 2

× 3

PŒCILOMORPHUS CYCLOIDES
Cf. S. B., Mon. Inf. Ool. Amm., 1889, XXII, 9, 10
[Clatcombe], " near Sherborne ; Dorset, Inf. Ool.," [*humphr.*]
S.B., ex Darell, Coll. 4794. Has strong primary ribs

PŒCILOMORPHUS PRIMIFERUS, NOV., p. 10
Stepheoceratan, *Epalxites* ; Holotype. See DCCXLVI

Fig. 1a

Fig. 1 N.S.

Fig. 2

× 3

PŒCILOMORPHUS CYCLOIDES
[Clatcombe], "near Sherborne, Dorset; Inf. Ool."; S.B. 4794
S. 12·25, 45, 53, 26·5; 23, 39, 41, 28; max. 23, with mouth

PŒCILOMORPHUS PRIMIFERUS, NOV., p. 10
Stepheoceratan, *Epalxites*; Holotype. See DCCXLVI

Fig. 1 Fig. 2

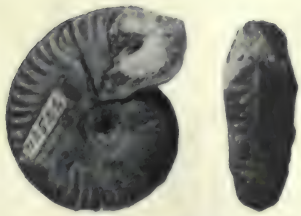


Fig. 3
× 2·7

" AMMONITES CYCLOIDES "
" Milborne Wick, Somerset ; I.O." [*humphriesiani* η]
[Cf. Q.J.G.S., xlix, 1893, 502, § XVII, 2] ; S.B., ex Darell, Coll. 1165
S. 15, 47, 36·5, 23 ; 27, 50, 35, 25 ; max. 27·5, with mouth

PŒCILOMORPHUS ANGULINUS, NOV., p. 10
Stepheoceratan, *Epalxites* ; Holotype. See DCCLVI

Fig. 2 Fig. 1

N.S.

Fig. 1a

× 1·41

MORPHOCERAS PSEUDO-ANCEPS
Ebrayiceras rursum, S.B., T.A., iii, 1920, 23, 24, Holotype
" Burton Bradstock ; I.O." [top] ; S.B., ex Darell, Coll. 3365
S. 21, 38, 26, 39 ; 28, 28·5, 26, 43. Fig. 1a restored

EBRAYICERAS RURSUM, S. BUCKMAN
Zigzagiceratan, *zigzag* ; Holotype. See CLXXIV

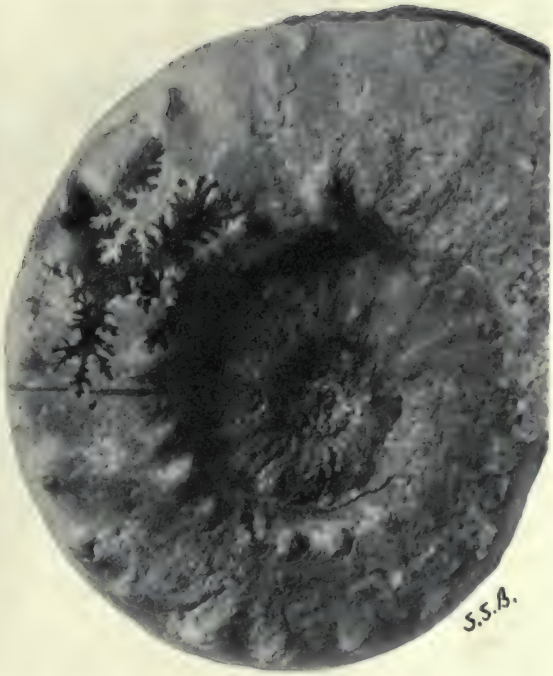
Fig. 1

Fig. 2

Fig. 3

COSMOCERAS WALDHEIMII
[Huntingdonshire; Lower Oxford Clay, nodule bed]; J. W. T. Coll. "S. 44, 41, 18, 25; 84, 44, c. 17+, 26," (J.W.T.); max. c. 90

ANAKOSMOKERAS TRINODE, NOV.
Kosmoceratan, *stutchburii*; Holotype. See DXXXI



ASPIDOCERAS FAUSTUM
Asp. vettersianum, Neumann, 1907, Pal. Oest., XX, 57 ; VI, 19
Pressed-Steel Works, Cowley, Oxon ; L.C.G. ; S.B. Coll. 4758
S. 56, 40, 30 (28·5), 28·5 ; 103, 36, 33, 40 ; max. c. 320

ASPIDOCERAS VETTERSIANUM, NEUMANN
Cardioceratan, *Kranaosphinctes*. See CDXXXVIII

Fig. 1a

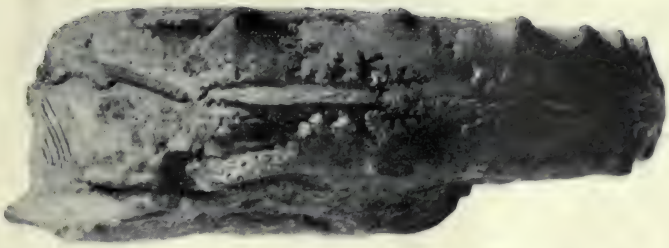
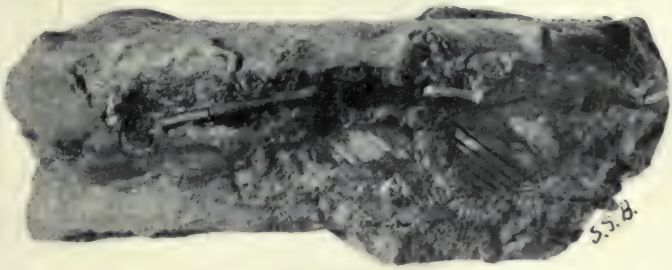


Fig. 1b



ASPIDOCERAS FAUSTUM
Cowley, Oxon ; Lower Calcareous Grit ; S.B. Coll. 4758, purch.
Inner whorls of large specimen, siphuncle much displaced
Oblique lines mark radii of overlapping dorsum

ASPIDOCERAS VETTERSIANUM, NEUMANN
Cardioceratan, *Kranaosphinctes*. See CDXXXVIII

87

TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs and/or with MS. by
J. W. TUTCHER, M. Sc., H. G. HERRING, A. REELEY and the Author

PART LXVIII
16 Plates

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Fig. 1
" × 0·97 "

Fig. 2
" × 0·89 "

WÆHNEROCERAS EXTRACOSTATUM, TUTCHER, 1918, cit. spec.
Q.J.G.S. lxxiii, 279, 280; " Long Itchington, Southam,
" Warwickshire; *Hettangian, megastoma*; J.W.T. Coll.
" S. 78, 29, 22, 48; 124, 28, 21, 50," (J.W.T.). Finish with mouth

MACROGRAMMITES GRAMMICUS, NOV.
Schlotheimian, *megastoma*; Genotype, Holotype. See DCCXVIII

"× 2"

Fig. 1 "× 1"

Fig. 2

Fig. 3

"WÆHNEROCERAS EXTRACOSTATUM, TUTCHER, 1918, cit. spec.
"Kayes Cement Works, Long Itchington, Southam, Warwickshire
"Lower Lias, lower part, bottom of quarry; J.W.T. Coll."
Distinct longitudinal (*macros*) lines (*grammai*)

MACROGRAMMITES GRAMMITICUS, NOV.
Schlotheimian, *megastoma*; Genotype, Holotype. See DCCXVIII

x 0·56

AMMONITES BIRCHI GIGAS, QUENSTEDT
(Amm. Schw. J., i, 1883, 137 ; XVIII, 13) ; Lyme Regis, Dorset
Lower Lias, *birchi* bed ; S.B., ex T. Wright Coll., 4732
S. 135, 28, 33, 47·5 ; 191, 24, c. 25, 61 ; size c. 210 ; max. c. 250

MICRODEROCERAS GIGAS, QUENSTEDT SP., 1883
Microderoceratan, *birchi*. Cf. DCCVI

Fig. 1

Fig. 2

AMMONITES BIRCHI GIGAS, QUENSTEDT
Lyme Regis, Dorset; Lower Lias; S.B. Coll. 4732
Transverse (concrescent) striæ with punctae and short, intermittent, irregular longitudinal striæ on test

MICRODEROCERAS GIGAS, QUENSTEDT SP., 1883
Microderoceratan, *birchi*. Cf. DCCVI

Fig. 1

Fig. 2

Fig. 3
× 1·3

DACTYLIOCERAS ANGUINUM, S. BUCKMAN, 1922, cit. spec.
Q.J.G.S., lxxviii, 453 ; *Anguidactyl. anguiformis*, T.A. vi, 1926, 41
Barrington, Som. ; Upper Lias, Bed 11 ; M.P.G. Coll. 38014
S. 34, 29·5, c. 29·5, 52 ; 47, 27, 25, 53 ; size 48, max. c. 60

ANGUIDACTYLITES ANGUIFORMIS, S. BUCKMAN, 1926
Harpoceratan, *anguiformis* ; Genotype, Holotype. Cf. DCC

Fig. 2 Fig. 1

AMMONITES FALCIFER, J. SOWERBY, 1820, Holotype
M.C. iii, 99 ; CCLIV, 2 ; " Ilminster, Som. ; Inf. or Ironshot Oolite "
[Thorncombe Beacon, Dor. ; U.L., Junct. Bed], Conglom., pink inclusions
B.M. (N.H.), 43946 ; S. 31·5, 43, 33, 22 ; 58, 46·5, 27·5, 27·5, – k
Strong inner rib stage to about 38 mm. diam. [Cf. Barrington, Bed 24]

HARPOCERAS FALCIFERUM, J. SOWERBY SP.
Harpoceratan, *lobatum* ; Genotype. See DCCXLIX

Fig. 1a × 1·4

Fig. 1

Fig. 2 × 1·03

Fig. 3

WITCHELLIA SP., S. BUCKMAN, 1896, cit. spec.
Q.J.G.S., lii, 681, § IV, 6; Dundry, Somerset; *Witchelliæ* Y, [=Upper White Ironshot]; S.B. Coll. 3475
S. 28, 39, 34, 35·5; 59, 39, 25+t, 34; lateral auricles
Diff., *Witchellia*, by auricles and Sonninian suture-line

SPATULITES SPATIANS, NOV.
Sonninian, *Witchellia*; Genotype, Holotype. Cf. CCCXCIX

Fig. 1

Fig. 2

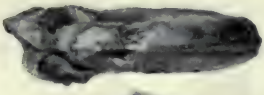


Fig. 3
× 1·37

PŒCILOMORPHUS MACER
Dundry, Somerset ; Y, [= Upper White Ironsh.] ; S.B. Coll. 3487
S. 19, 39·5, 26·5, 31·5 ; 34, 38, 23·5, 37 ; Lat. auricle 9·5 mm.
Stouter, more costate than *P. macer*, Holot., Mon., XXII, 23, 24

MACERATITES AURIFER, NOV.
Sonninian, *Witchellia* ; Genotype, Holotype. Cf. DCCLVI

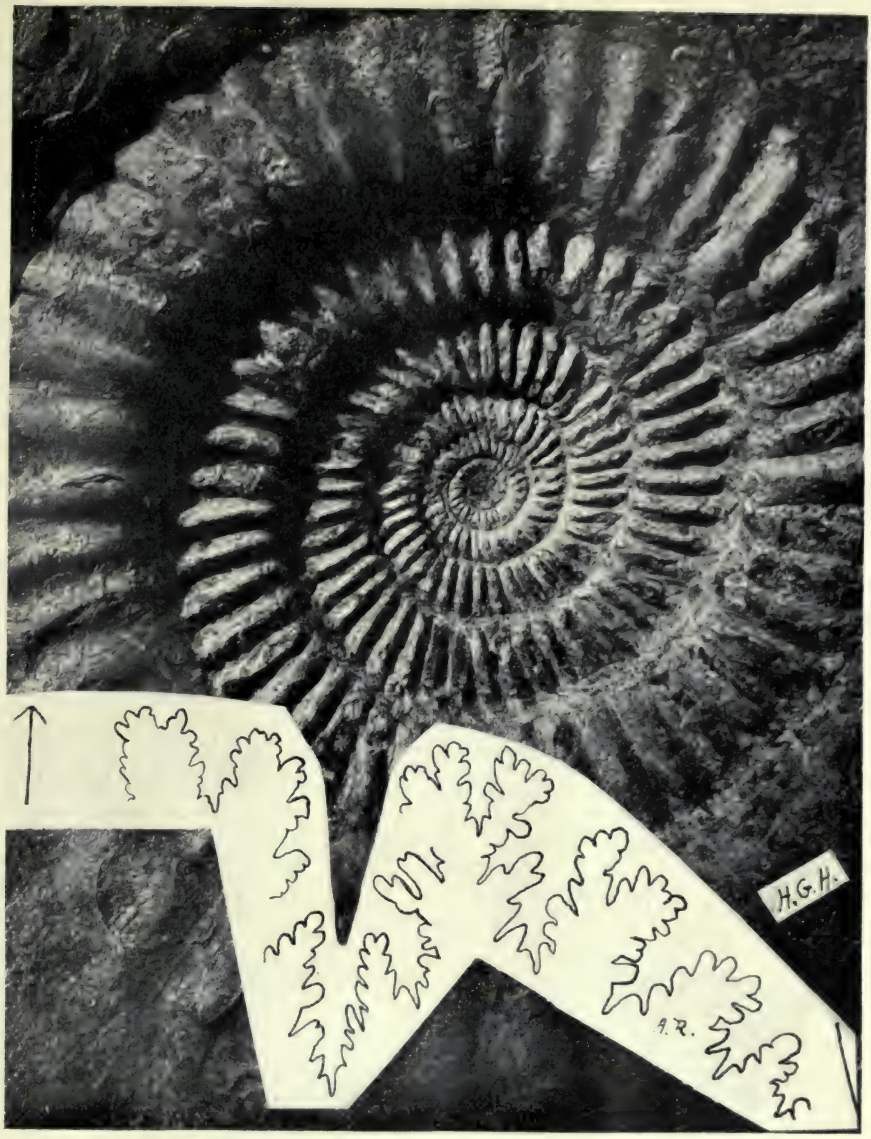
× 0·26

"AMMONITES DORSETENSIS," T. WRIGHT, 1856, Holotype
Q.J.G.S., xii, 309, 321. "largest spec., 16 in., [p. 322]; B.M., C. 3392"
"Halfway House, Sherborne, Dorset; Upper Lias
"Cephalopoda-Bed"; [Fossil Bed, Upper I.O., *truellei*]
Specimen has Wright's holograph label

DUROTRIGENSIA DORSETENSIS, T. WRIGHT SP.
Parkinsonian, *truellei*; Genotype. Cf. DXLVI

Fig. 1

Fig. 2



"AMMONITES DORSETENSIS," T. Wright, 1856, Holotype "Halfway House, Dorset; British Mus. (N.H.), C. 3392" Complete with mouth. "Penult. sl." traced by A. R. "S. 280, 33, 24, 43·5; 465, 32, 22·5, 43," (A. Reeley)

DUROTRIGENSIA DORSETENSIS, T. WRIGHT SP.
Parkinsonian, *truellei*; Genotype. Cf. DXLVI

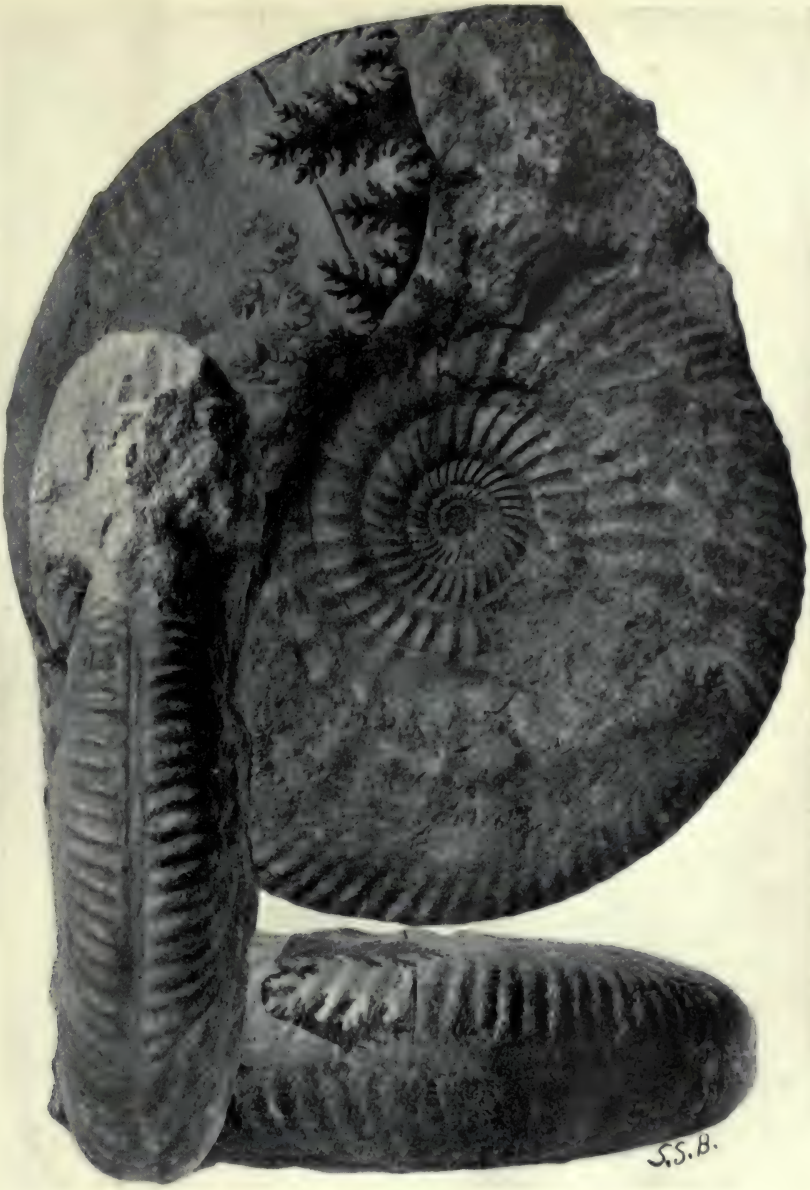


Fig. 1

Fig. 2

Fig. 3

AMMONITES NEUFFENSIS ; SCHLOENBACH
(Palæont. xiii, 1865, 27 ; XXVIII, 3 ; *Park. eimensis*, Wetzel, Id., lviii, 1911, 208, Holot. cit.) ; Burton Bradstock, Dorset, 2nd Bed ; S.B. 4774
S. 75, 34·5, 29, 38, – t ; 121, 36, 26·5, 34·5, – t ; max. 220

DUROTRIGENSIA EIMENSIS, WETZEL SP.
Parkinsonian, *schloenbachi*. See DCCLXVII

Fig. 1

× 1·03

Fig. 2

Fig. 3

× 1·32

AMMONITES VASCHALDI
"*Ebrayiceras jactatum*, S.B., 1920, T.A. iii, 23, 24; Holotype
"Burton Bradstock, Dorset; Inf. Ool. [*zigzag*]; S.B. Coll. 3316"
S. 35, 37, 31·5, 31·5; 47, 32, 23·5, 40·5; max. c. 60

EBRAYICERAS JACTATUM, S. BUCKMAN
Zigzagiceratan, *zigzag*. See DCCLVIII & CCCXXI

Fig. 1 Fig. 2

× 0·8

ASPIDOCERAS HYPSELUM
Pressed-Steel Works, Cowley, Oxfordshire ; Lower Calc. Grit
S.B. Coll. 4799 ; S. 26·5, 32, 32, 44
S. 63, 38, 36, 40 ; 173, 30, 35 (33), 46 ; max. c. 230

ASPIDOCERAS AKANTHEEN, NOV.
Cardioceratan, *Kranaosphinctes* ; Holotype. See DCCLX

× 0·8

ASPIDOCERAS HYPSELUM
Cowley, Oxon ; Lower Calcareous Grit ; S.B. Coll. 4799
The outer half-whorl is body-chamber
Stout whorls, arcuate ribs, sub-approximate, regular, small spines

ASPIDOCERAS AKANTHEEN, NOV.
Cardioceratan, *Kranaosphinctes* ; Holotype. See DCCLX

Fig. 1 Fig. 2

× 0·7

AMMONITES ANTIQUATUS, SIMPSON, 1855, Holotype
Foss. Y.L., p. 36. "[Robin Hood's Bay], Whitby, Yorkshire
"Lower Lias, [*bucklandi* beds, J. F. Blake, 1876, 272]
"Whitby Mus. 79, 80," 2 fragments, beginning of body-chamber

MACROGRAMMITES ANTIQUATUS, SIMPSON SP.
Schlotheimian, *megastoma*. See CCCXCV

AMMONITES ANTIQUATUS, SIMPSON, 1855, Holotype
[Robin Hood's Bay], perhaps washed from submerged reefs
Whitby Mus. 79, 80 ; φ. (184, 44, 23, 32), estimate
Distinct longitudinal lines (striæ) ; see also Simpson

MACROGRAMMITES ANTIQUATUS, SIMPSON SP.
Schlotheimian, *megastoma*. See CCCXCV

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TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs
by the Author

PART LXIX
(Pages 11–14); 18 Plates

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April, 1928

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Fig. 2 × 3

Fig. 1 × 0·9

AMMONITES ZIPHUS
(Cf. Reynès. Mon. Amm., 1879, XXXVII, 17, 18) ; Lyme Regis
Dorset ; Lower Lias, [*planicosta* bed] ; S.B. Coll. 4454, purch.
Stages, 1 to c. 4, 4 to c. 8, 5 to c. 58 mm. ; then decline (reverse)
Ribs of ultimate whorl very feebly bullate

XIPHEROCERAS REVERTENS, NOV.
Asteroceratan, *planicosta* ; Holotype. See DCCVI

Fig. 2 Fig. 1

× 0·9

AMMONITES ZIPHUS
Lyme Regis ; S.B. Coll. 4454 ; Sl. 25, 94, 100, 51
S. 79, 31, 30·5, 47 ; 140, 31, 29, 49 ; size c. 143 ; max. c. 250
Injury produces furrow disturbing spines ; other side unaffected

XIPHEROCERAS REVERTENS, NOV.
Asteroceratan, *planicosta* ; Holotype. See DCCVI

× 0·97

Fig. 1

Fig. 3

Fig. 2

AMMONITES FRANTZI
" Catesby, Northamptonshire ; Upper Lias, Fish Bed "
S.B. Coll., pres. Mr. B. Thompson, F.G.S., 4797
S. 55, 32, 23·5, 37 ; 86, 31·5, 22, 43 ; size c. 90 ; max. c. 120 +

MURLEYICERAS GYRALE, NOV.
Harpoceratan, *crenatum* (*murleyi*) ; Holotype. See CCCXVI

Fig. 1 Fig. 2

AMMONITES WALCOTII, J. SOWERBY, 1815, Topotype
(Min. Conch. ii, 7; CVI); Whitby, Yorkshire; Upper Lias
[Alum Shale]; S.B. Coll. 3250, purchased
S. 68, 33, 24·5, 37; 98, 32, 21·5, 44; size 100; max. c. 102
At end, injury reduces carinatibisulcation, produces riblets

HILDOCERAS WALCOTTI, J. SOWERBY SP.
Hildoceratan, *bifrons*. See DCLXXXV & CXIVB

Fig. 1 Fig. 2

GRAMMOCERAS STRIATULUM ; S. BUCKMAN, 1889, cit. spec.
Q.J.G.S. XLV, 445, § III, 15 ; Nibley Knoll, North Nibley, Glos
Cephalopod Bed, *striatulum* ; S.B. Coll. 4804
S. 41, 38, 27, 35 ; 71, 32, 22, 43 ; max. c. 90 +

GRAMMOCERAS THOUARSENSE, D'ORBIGNY SP.
Grammoceratan, *thouarsense*. Cf. DCLXXXVI

Fig. 1

Fig. 2

Fig. 3

Fig. 1a
× 1·32

HARPOCERAS FALCIFERUM
Moolham, Ilminster, Somerset ; Upper Lias, [Barrington 23]
S.B. Coll., ex T. Stock, 4798 ; with beginning of mouth
S. 25, 38, 23, 26 ; 43, 35, 25·5, 36 ; max. 45

PHAULARPITES EXIGUUS, NOV.
Harpoceratan, *falcula;* Genotype, Holotype. Cf. DCLXXXII

Fig. 1

Fig. 2

HARPOCERAS FALCIFERUM
" Barrington, Ilminster, Somerset ; Upper Lias, Bed 23
" M.P.G. Coll. 47917 " ; shows sulcus, beginning of mouth
S. 18, 41·5, 25, 27·5 ; 35, 41, 25, 33 ; size 37 ; max. c. 38

PHAULARPITES EXIGUUS, NOV.
Harpoceratan, *falcula* ; Paratype. Cf. DCLXXXII

Fig. 1

Fig. 2

AMMONITES HOLANDREI
"Barrington, Somerset ; Upper Lias, Bed 22
"M.P.G. Coll. 38017" ; *Toxodactylites toxophorus*, T.A. VI, 42
S. (+ ribs), 38, 29, 26·5, 45 ; 59, 28, 23·5, 51 ; max. c. 75

TOXODACTYLITES TOXOPHORUS, S. BUCKMAN, 1927
Harpoceratan, *tardum ;* Genotype, Holotype. Cf. DCLVIII

Fig. 1

Fig. 2

Fig. 1a

× 1·52

CŒLOCERAS DAYI
"Barrington, Ilminster, Somerset; Upper Lias, Bed 23
"M.P.G. Coll. 38019"; *Spinicœloceras spicatum*, T.A., vi, 1927, 42
S. 19·5, 31, 51, 46; 31, 27·5, 39, 48; max. c. 50

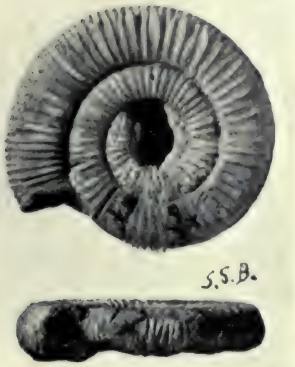
SPINICŒLOCERAS SPICATUM, S. BUCKMAN, 1927
Harpoceratan, *falcula*; Genotype, Holotype. Cf. LXXXIX

Fig. 1

Fig. 2

AMMONITES HOLANDREI
"Barrington, Ilminster, Somerset; Upper Lias, Bed 24
"M.P.G. Coll. 38021"; *Peridactylites consimilis*, T.A., vi, 42
S. 26, 32·5, 38, 44; 43, 28, 27·5, 47; max. c. 50

PERIDACTYLITES CONSIMILIS, S. BUCKMAN, 1927
Hildoceratan, *lobatum*; Genotype, Holotype. Cf. DCCVIII



AMMONITES BRAUNIANUS
" Barrington, Somerset ; Upper Lias [Bed 26 ?]
" M.P.G. Coll. 38023 " ; *Parvidactylites parvus*, T.A., vi, 1927, 43
S. 25, 26, 26, 52 ; 36, 24·5, 21, 56 ; max. c. 50

PARVIDACTYLITES PARVUS, S. BUCKMAN, 1927
Hildoceratan, *braunianum* ; Genotype, Holotype. Cf. DCLVIII

STEPHANOCERAS aff. HUMPHRIESI CRASSICOSTA
(Cf. G. Boehm, Nova Guinea, vi (1), 1912, 9 ; III, 2)
" [Frogden Quarry], near Sherborne, Dorset ; Inf. Oolite "
[Upper roadstone], cf. Q.J.G.S., xlix, 1893, 500, § XV, 5 ; S.B. 2034

GIBBISTEPHANUS GIBBOSUS, NOV.
Stepheoceratan, *banksii* ; Genotype, Holotype. Cf. DCLX

Fig. 1

Fig. 2

STEPHANOCERAS aff. HUMPHRIESI CRASSICOSTA
Near Sherborne, Dorset ; S.B., ex Darell, Coll. 2034
S. 122, 34, 49·5, 40 ; 192, 28, 37, 49, has mouth
Max. with mouth, 200 ; EL = N < L1

GIBBISTEPHANUS GIBBOSUS, NOV.
Stepheoceratan, *banksii* ; Genotype, Holotype. Cf. DCLX

COSMOCERAS PARKINSONI ; S. Buckman, 1881, cit. spec.
Q.J.G.S., xxxvii, 593, 600 ; Rail. cutt., Bradford Abbas, Dorset
I.O., *parkinsoni* zone, (Cf. Id. xlix, 1893, 485, § II, 3) ; S.B. 3807
Nodes small on test, not on cast ; (O V, L1) = on L1
(*Ammonites parkinsoni*, J. Sowerby, 1821, M.C. iv, 1 ; CCCVI)

DUROTRIGENSIA PARKINSONI, J. SOWERBY SP., 1821
Parkinsonian, *parkinsoni* ; Chorotype. See DCCLXVIII

COSMOCERAS PARKINSONI ; S. Buckman, 1881, cit. spec.
Bradford Abbas, Dorset ; S.B. Coll. 3807
S. 89, 34, 26, 41 ; 146, 33·5, 23, 42·5 ; max., with lappet, 147
Primary ribs, 47 ; Sl. degenerate and degenerating

DUROTRIGENSIA PARKINSONI, J. SOWERBY SP. 1821
Parkinsonian, *parkinsoni* ; Chorotype. See DCCLXVIII

Fig. 1 Fig. 2

COSMOCERAS PARKINSONI ; S. BUCKMAN, 1881, cit. spec.
Bradford Abbas, Dorset ; S.B. Coll. 3807 ; ventr. lap. 10 mm.
Last few ventral ribs not broken
Rib-length 31 mm., prim. 61%, sec. 39% ; at 42, 62%, 38%

DUROTRIGENSIA PARKINSONI, J. SOWERBY SP., 1821
Parkinsonian, *parkinsoni* ; Chorotype. See DCCLXVIII

Fig. 1

Fig. 2

× 0·55

ASPIDOCERAS CHOFFATI
Pressed Steel Works, Cowley, Oxfordshire; Corallian
Lower Calcareous Grit; S.B. Coll. 4698, purch.
S. 210, 26, c. 30, 46; 327, 28, 32 (27), 48·5; max. c. 450 +

ASPIDOCERAS FEROX, NOV.
Cardioceratan, *Kranaosphinctes*; Holotype. See DCCLXX

× 0·55

ASPIDOCERAS CHOFFATI
Cowley, Oxfordshire ; S.B. Coll. 4698, purch.
End of outer whorl, thickest part over inner spines
Outer spines in places project 17 mm. from side

ASPIDOCERAS FEROX. NOV.
Cardioceratan, *Kranaosphinctes* ; Holotype. See DCCLXX

TYPE AMMONITES—VII

BY

S. S. BUCKMAN

With illustrations from photographs by
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16 Plates

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Fig. 1 Fig. 2

× 0·385

DEROCERAS SUBMUTICUM
Kilmersdon Colliery, Radstock, Somerset ; Mid. Lias
Armatus bed ; S.B. Coll. 1956 ; body ch. × about *a*
S. 179, 30, 35, 42 ; 284, 25, 37, 54 ; size c. 287 ; max. c. 300

APODEROCERAS TRIORNATUM, NOV.
Deroceratan, *leckenbyi* ; Holotype. See LXXII

DEROCERAS SUBMUTICUM
Radstock ; Middle Lias ; S.B. Coll. 1956
Three stages of ornament—spinous followed by decay to subcostate which gives way to strong spinosity

APODEROCERAS TRIORNATUM, NOV.
Deroceratan, *leckenbyi* ; Holotype. See LXXII

× 0·73

LYTOCERAS FIMBRIATUM ; S. BUCKMAN, 1922, cit. spec. Q.J.G.S., lxxviii, 396 ; Thorncombe Beacon, Eype shore, Bridport Dorset ; Middle Lias, *margaritatus* Bed, S.B. Coll. 3891 ; aff. *Lyt. fimbriatum*, Wright, 1883, LXXI, LXXII ; *a–a*, slow-growth stage

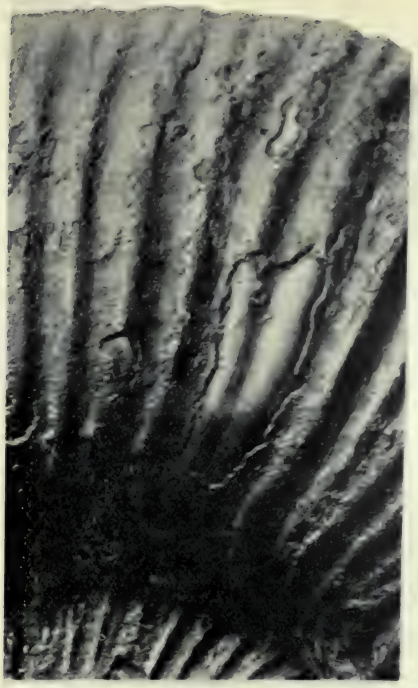
LYTOCERAS FURCICRENATUM, NOV.
Amaltheian, *margaritatus* ; Holotype. Cf. CCCXCI

Fig. 1 × 0·86 Fig. 2

LYTOCERAS FIMBRIATUM ; S. BUCKMAN, 1922, cit. spec.
Thorncombe Beacon, Eype shore ; S.B. Coll. 3891
S. 76, 39·5, 34, 34 ; 166, 39, 38, 35·5 ; max. c. 300
On venter ribs furcate, and are crenulate

LYTOCERAS FURCICRENATUM, NOV.
Amaltheian, *margaritatus* ; Holotype. Cf. CCCXCI

Fig. 1



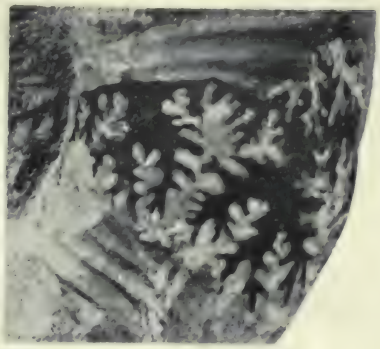


Fig. 3

Fig. 2

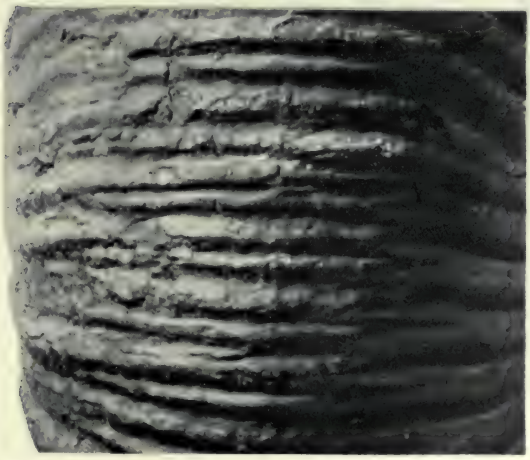


Fig. 4

S.S.B.

× 1·34

LYTOCERAS FIMBRIATUM ; S. BUCKMAN, 1922, cit. spec.
Thorncombe Beacon, Eype shore ; S.B. Coll. 3891
Ribs show smooth on side, crenulate on venter
Sl. less spreading than *A. fimbriatus*, d'Orb. (& Wright)

LYTOCERAS FURCICRENATUM, NOV.
Amaltheian, *margaritatus* ; Holotype. Cf. CCCXCI

Fig. 1a × 1·38

Fig. 1 Fig. 2

AMMONITES CRASSUS
Upper Quarry, Barrington, Somerset; Upper Lias, Bed 26
M.P.G. Coll. 38022; occasional nodes in inner whorls
S. 31, 31, 50, 45; 51, 30, 55, 46; max. c. 90.

MULTICŒLOCERAS MULTUM, S. BUCKMAN, 1926
Hildoceratan, *bifrons*; Genotype, Holotype, T.A. vi, 42. Cf. CXIX

Fig. 1

Fig. 3

Fig. 2

ANCOLIOCERAS SUBSTRIATUM
[Beaminster, Dorset]; "Inf. Oolite," [bottom bed], J. W. T. Coll.
S. 38, 50, 23·5, 18·5; 73, 47, 20-t, 20; size 74, max. c. 76

ANCOLIOCERAS CAPILLARE, NOV.
Ludwigian, *Ancolioceras*; Holotype. Cf. DLXXIX

Fig. 1 Fig. 2

NAUTILUS MÆANDRUS REINECKE
Naut. Arg. 1818, 1, 3; "Bass's Pit, Northampton
"Pendle Beds (Sharp, Q.J.G.S. xxvi, 1870, 366); B. Thompson Coll." (B.T.)
S. 49, 51, 19·5, 15·5; 91, 47, c. 18·5, 18; max. c. 140+

ANCOLIOCERAS MÆANDRUS, REINECKE SP.
Ludwigian, *Ancolioceras*. See DCCLXXXVI

STEPHANOCERAS BANKSI
Frogden Qy., Oborne, Dorset; Inf. Oolite, [Upper] Roadstone
[*Niortensis*, Q.J.G.S., XLIX, 1893, p. 500, § XV, G. 5]
S.B. Coll. 2049; (*Am. coronatus multinodus*, Quen. 1886, LXVII, 2)

TELOCERAS MULTINODUS, QUENSTEDT SP.
Stepheoceratan, *banksii*. See DCLX

Fig. 1 Fig. 2

STEPHANOCERAS BANKSI
Frogden Qy., Oborne, Dorset; I.O.; S.B. Coll. 2049
S. 96, 34, 72 +, 48·5; 139, 33, 66 +, 39·5; 175, 28, c. 60, 47
Contracted body-chamber may indicate injury in life

TELOCERAS MULTINODUS, QUENSTEDT SP.
Stepheoceratan, *banksii*. See DCLX

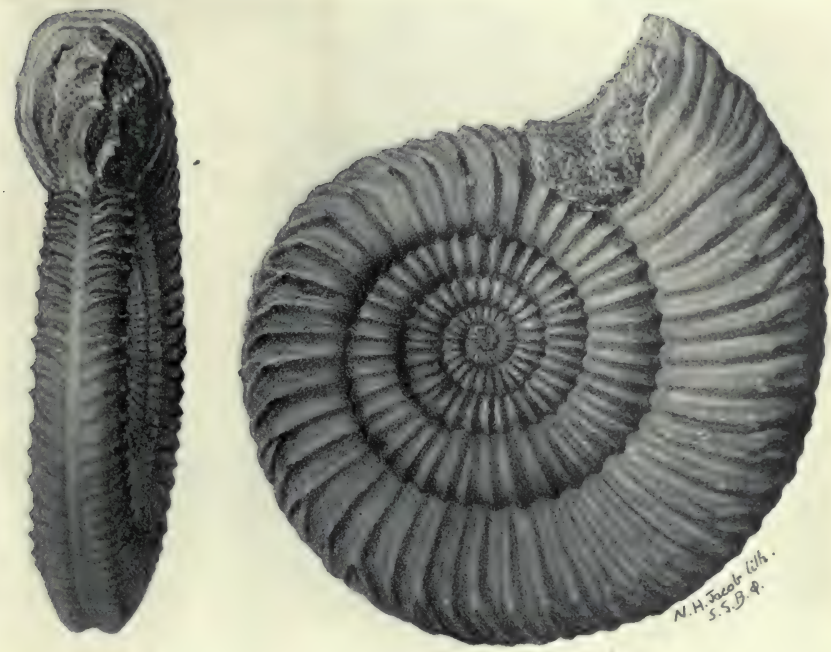
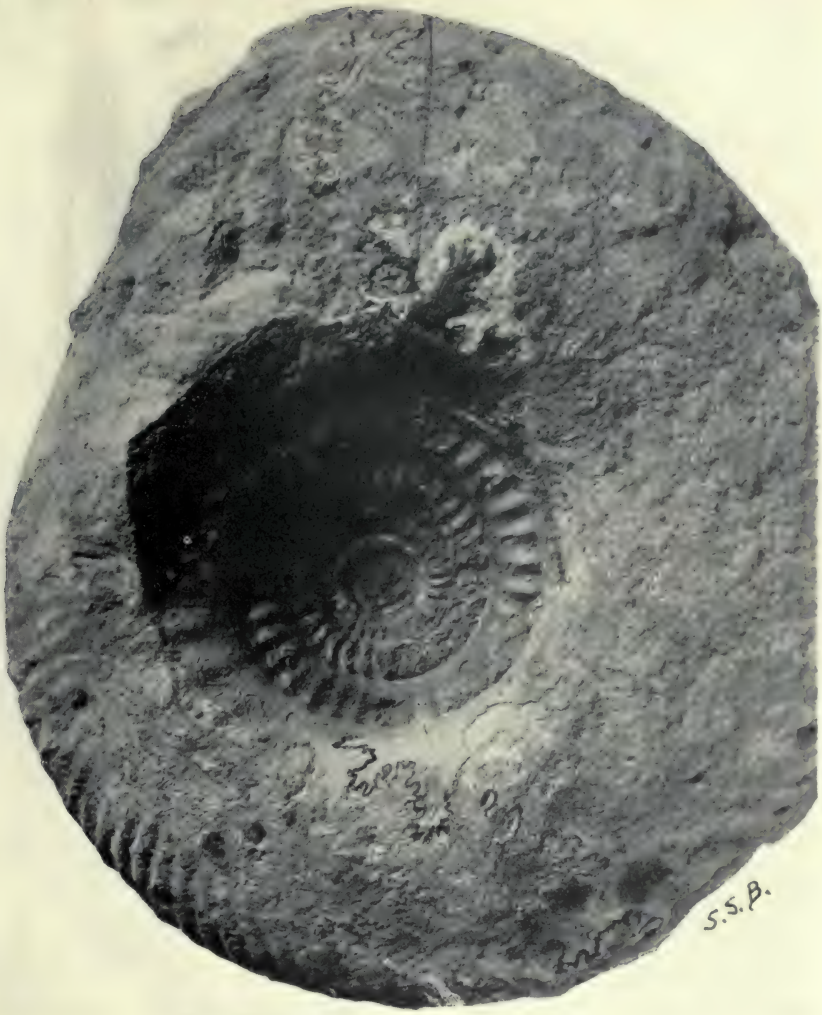


Fig. 2 Fig. 1

PARKINSONIA PARKINSONI ; BAYLE, 1878, Genotype
Géol. France, iv, LXVII, 2, 3 ; " Saint Vigor, (Calvados), France
" Oolithe inf. ferrugineuse " [= Burton Bradstock, Shell Bed]
F. 53, 27·5, 23, 51 ; 86, 29, 21, 51 ; max. c. 86
Rib-length 14·5 mm., prim. 76%, sec. 24% ; at 22·5, 69%, 31%

PARKINSONIA TYPUS, NOV.
Parkinsonian, *garantiana* ; Genotype. See DCXII & CCCLII



× 0·77

AMMONITES PARKINSONI LÆVIS
Grange Quarry, Broad Windsor, Dorset ; I.O., top beds
Zigzag or earlier ; soft, brownish, sandy stone
S.B. Coll. 3915 ; S. 112, 39, 35, 34 ; 172, 41, 31·5, 30·5 ; max. c. 310

HASELBURGITES SUBGALEATUS, NOV.
Parkinsonian, *schloenbachi/zigzag* ; Holotype. See CCIII

AMMONITES PARKINSONI LÆVIS
Broad Windsor, Dorset ; Inf. Ool. ; S.B. Coll. 3915
Involute ; sides convergent, losing ribs ; venter tending to sharpness, losing rib-break

HASELBURGITES SUBGALEATUS, NOV.
Parkinsonian *schloenbachi zigzag* ; Holotype. See CCIII

Fig. 1 Fig. 2

AMMONITES DEVILLEI
Shotover Brickyard, Oxford, (sandpit at north end); Portland Sands
Big "crackers" in Shotover Grit Sands; S.B. Coll. 4803, purch.
S. 49, 40, c. 27, 28·5; 91, 37, 24, 36; Horn, end restored, 26 mm.

KERATINITES NASO, S. BUCKMAN, 1926
Paravirgatitan, *pringlei*; Topotype. See DCLI

Fig. 1

Fig. 2

AMMONITES FALCIFER
"Upper Quarry, Barrington, Somerset; Upper Lias, Bed 24"
Bluish-grey marly stone; "M.P.G. Coll. 48019"
S. 31·5, 40, 35, 27·5; 53, 44, 29, 29,-k
Strong inner rib stage to about 40 mm. diameter

HARPOCERAS FALCIFERUM, J. SOWERBY SP.
Harpoceratan, *lobatum*. See DCCXLIX

Fig. 1

Fig. 3

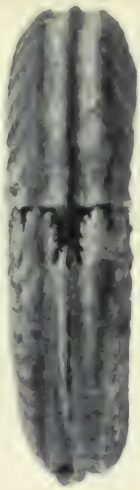


Fig. 2

Fig. 4

AMMONITES WALCOTTI
"Trent, near Yeovil, Somerset"; [U.L., *bifrons*] S.B. Coll. 767, purch.
S. 41, 34, 32, 45; 71, 30·5, 25·5, 47. A dysmorph
Normal ribs, Fig. 1; abnormal (other side), Fig. 2

HILDOCERAS WALCOTTI, J. SOWERBY SP.
Hildoceratan, *bifrons*. See DCLXXXV & CXIVB

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Buckman, Sydney Savory
Yorkshire type ammonites

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